GIORGIO BORMAC s.r.l.

CATALOGUE 2026

XS ARGO LAB ONDA NEYA MARCONI

CATALOGUE 2026

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OUR BRANDS:

XS INSTRUMENTS

XS SENSOR

XS GREEN LINE

XS BALANCE

ARGO LAB

NEYA by XS

ONDA SPECTROPHOTOMETER

HOW TO ORDER

Telephone: +39 059 653 274
Monday to Friday from 8.30 to 13.00
and from 13.30 to 17.00.

e.mail: export@giorgiobormac.com

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41012 Carpi MO - Via Della Meccanica, 25
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www.giorgiobormac.com

pHMETERS

PORTABLE INSTRUMENTS WARRANTY 3 YEARS

BENCHTOP INSTRUMENTS WARRANTY 3 YEARS

MADE IN ITALY

COMPANY WITH QUALITY MANAGEMENT SYSTEM
UNI EN ISO 9001:2015
CERTIFIED BY CERTIQUALITY

HOW TO CHOOSE

	Violab pH 50	Violab pH 60	pH 8 PRO	pH 80 PRO
Resolution	0,01 pH	0,01 pH	0,001 pH	0,001 pH
Display	coloured LCD	coloured LCD	Coloured graphic	Coloured graphic
GLP calibration	○	●	●	●
Calibration password	○	○	●	●
Calibration points	3	3	5	5
Calibration due alarm	○	●	●	●
Electrode status indication	○	○	●	●
Selective ION	○	○	○	●
Data logger	○	●	●	●
PC / Printer connection	○	●	●	●
Analog view	○	○	●	●
Alarm settings	○	○	●	●
Multilanguage	○	○	●	●
Account manager + audit trail	○	○	○	●
External keyboard	○	○	○	●

pH 80 PRO

- **Resolution** 0,1 / 0,01 / 0,001 pH
- **Advanced user management** (4 levels , 15 profiles)
- **Data logger**, 8000 data memory in GLP
- **Analysis Menu** for data traceability + **Audit trail**
- Customisable **print templates**
- **Multiview screen**

pH meter, digital benchtop ionmeter for advanced laboratory analyses.
Automatic pH calibration (6 buffer families) or manual, on 5 values.

ISE calibration from 2 to 5 points.
Automatic and manual ORP calibration (1 point) .
Calibration due warning and/or measurement block.
Alarm setting and display functions in analogue, 'Hold' and 'Stability' format with titration mode (Tit) and time stability for ISE, self-diagnosis messages.
Advanced user management (Admin, Manager, User, Guest) with different possibilities of access to instrumental functions.
Different data logger modes (Manual, Automatic, Min/Max, Delta value).
Analysis menu for complete editing of your measurements: you can enter all useful information about the sample and test.
Multiview screen (up to 6 user-selectable parameters can be displayed simultaneously).
Customisable print templates. Multilingual Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).
Free **Data-Link+** software available at www.xsinstruments.com for PC data management, including **Audit Trail.**
2 USB outputs for external keyboard and PC connection. RS232 port for printer connection.
Independently controlled magnetic stirrer (optional).

Measuring range:
pH: -2,000...20,000 (0,001 pH)
mV: -2000...+2000 (0,1 - 1 mV)
ISE: 0,001...19999ppm
ORP: -2000...+2000 mV (0,1 - 1 mV)
Temperature:-30...130,0 °C (0,1 °C)

Equipped with:
S7/BNC cable, NT 55 temperature probe, electrode holder stand, coloured buffer solutions, external keyboard, USB cable and multisocket power supply.

Name	Description	P/N
pH 80 PRO STIRRER	Complete with **digital electrode XS Standard DHS, magnetic stirrer with adjustable speed**	50101392
pH 80 PRO STIRRER	Complete with **electrode XS Standard, magnetic stirrer with adjustable speed**	50101402
pH 80 PRO STIRRER	Without electrode, with **magnetic stirrer with adjustable speed**	50101412
pH 80 PRO BASIC	**Complete** with **digital electrode XS Standard DHS,** without magnetic stirrer	50101442
pH 80 PRO BASIC	**Complete with electrode XS Standard S7,** without magnetic stirrer	50101422
pH 80 PRO BASIC	Without electrode and magnetic stirrer	50101432
KEYBOARD	External soft keyboard with USB cable for 80+ Series	50001462
IQ-OQ MANUAL 80 SERIES	Printed manual IQ-OQ for **XS 80 PRO Series**	50001472

pH 8 PRO

- **Resolution** 0,1 / 0,01 / 0,001 pH
- Backlit colour **graphic display**
- **Automatic temperature compensation**
- **Data logger**, 1000 data memory in GLP
- **Numerical password**

Digital benchtop pH meter.
Automatic pH calibration (5 values) on different standard buffers, or custom (2 values).
Automatic and manual 1-point **ORP calibration**.
Recall and printout of calibration data. Graphical display of electrode status.
Calibration due warning and/or measurement block.
Alarm setting and analogic view, **"Hold" and 'Stability'** with titration mode (Tit), **self-diagnosis messages**.
Numeric password for protecting saved data and calibration management.
Data logger up to 1000 data in GLP with possibility of sending to printer or PC.
Multilanguage Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).
Free **Data-Link+** software at www.xsinstruments.com for PC data management.
USB output for PC connection and RS232 port for printer connection.
Independently controlled magnetic stirrer (optional).

Measuring range:
pH: -2,000...16,000 (0,001 pH)
mV: -2000...+2000 (0,1 - 1 mV)
ORP: -2000...+2000 (0,1 - 1 mV)
Temperature: -20...120,0 °C (0,1 °C)

Equipped with:
S7/BNC cable, NT 55 temperature probe, electrode holder stand, coloured buffer solutions, USB cable and multi-socket power supply.

Name	Description	P/N
pH 8 PRO STIRRER	Complete with **digital electrode XS Standard DHS, magnetic stirrer with adjustable speed**	50101252
pH 8 PRO STIRRER	Complete with **electrode XS Standard, magnetic stirrer with adjustable speed**	50101232
pH 8 PRO STIRRER	Without electrode, with **magnetic stirrer with adjustable speed**	50101242
pH 8 PRO BASIC	**Complete** with **digital electrode XS Standard DHS,** without magnetic stirrer	50101192
pH 8 PRO BASIC	**Complete with electrode XS Polymer,** without magnetic stirrer	50101202
pH 8 PRO BASIC	Without electrode and magnetic stirrer	50101212
IQ-OQ MANUAL SERIES 8	Printed manual IQ-OQ for **XS 8 PRO Series**	50001492

ACCESSORIES SERIES 8 / 80

	Description	P/N
MAGNETIC STIRRER	**Adjustable speed,** with electrode holder and connection cable	50001132
PRINTER RS 232	External printer with **normal paper** for XS 60 VioLab / 8 / 80 series	50001502
POWER SUPPLY	Power supply **12V/1A** for XS 8 PRO and 80 PRO series	50001512

pH 60 Violab

- **Resolution** *0,1 / 0,01 pH*
- Automatic and manual **temperature compensation**
- **Data logger** auto and manual , **up to 1000 savings** *in GLP*
- **Automatic calibration up to 3 points**
- **DHS digital sensors** management

Professional benchtop pH meters with innovative **backlit high definition coloured LCD display,** with possibility of brightness adjustment.
Management of **DHS digital sensors**.
Possibility to select the parameters to show on the display.
The **step by step guide** in setup and calibration allows a simple and immediate use of the device.
Automatic pH calibration with USA and NIST buffers, up to 3 points or 2 points defined by the user.
Automatic ORP calibration on 1 point.
Measurement **stability indication** and possibility to select 3 stability levels.
All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.
GLP function: Date and time, recall of calibration data and function "**Calibration due**".
Data logger up to 1000 measurements, manual and automatic, PC connection via micro-USB.
Data-Link + software available at www.xsinstruments.com.
RS 232 external **printer connection**

Measuring range:
pH: -2,00...16,00 (0,01 pH)
mV: -1000...+1900 (0,1 - 1 mV)
ORP: -1000...+1900 (0,1 - 1 mV)
Temperature: -10...110,0 °C (0,1 °C)

Equipped with:
Electrode holder stand, pH buffer solutions, USB cable, power supply and instructions for use.

Name	Description	P/N
pH 60 VIOLAB DHS ELECTRODE	Complete with **digital electrode XS 201 T DHS,** with integrated temperature sensor	50101102
pH 60 VIOLAB ANALOG ELECTRODE	Complete with **electrode XS 201 T**, with integrated temperature sensor	50101092
pH 60 VIOLAB WITHOUT ELECTRODE	With accessories, S7-BNC cable, temperature sensor NT 55, **without electrode**	50101112
PRINTER RS 232	External printer with **normal paper** for XS 60 / 8 / 80 series	50001502

pH 50 VioLab

- Resolution *0,1 / 0,01 pH*
- Automatic and manual **temperature compensation**
- Coloured backlit high definition **LCD display**
- **Automatic calibration up to 3 points**
- **DHS digital sensors** management

Professional benchtop pH meter with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment.
Management of **DHS digital sensors**.
Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic pH calibration with USA and NIST buffers, up to 3 points or 2 points defined by the user.
Automatic ORP calibration on 1 point.
Measurement **stability indication** and possibility to select 3 stability levels.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.

Measuring range:
pH: 0,00...14,00 (0,01 pH)
mV: -1000...+1000 (1 mV)
ORP: -1000...+1000 (1 mV)
Temperature: 0...100,0 °C (0,1 °C)

Colored LCD display

Equipped with:
Electrode holder stand, pH buffer solutions, power supply and instructions for use.

Name	Description	P/N
pH 50 VIOLAB DHS ELECTRODE	Complete with **digital electrode XS 201 T DHS,** with integrated temperature sensor	50101032
pH 50 VIOLAB ANALOG ELECTRODE	Complete with **electrode XS 201 T**, with integrated temperature sensor	50101002
pH 50 VIOLAB WITHOUT ELECTRODE	With accessories, S7-BNC cable, temperature probe NT 55, **without electrode**	50101012

NEW pH 70 NEX

- **Resolution** 0,1 / 0,01 / 0,001 pH
- High-definition backlit **TFT display**
- Calibration up to **5 points**
- **Multiview screen** with up to 4 parameters
- Manual and automatic **data logger**, up to 1000 measurements in GLP
- **5 different languages** available
- Sensor ID / User ID / Sample ID / **password function**

Ergonomic, waterproof professional portable pH meter with innovative high resolution backlit TFT display.
Power supply by alkaline batteries (AA) or USB-C. DHS technology.

pH, mV and ORP measurement, with Multiview display option including temperature.

The online help for setup and calibration allows for simple and immediate use of the device.
Automatic pH calibration with USA, NIST and DIN buffers up to 5 points or 2 user-defined points.
Automatic 1-point ORP calibration.
Indication of calibrated points and pH electrode status.
Measurement stability indicator; possibility to select 3 stability levels. MIN/MAX and HOLD alarm functions.

GLP functions: Date and time, calibration data display and calibration expiry setting with measurement lock.
Possibility to customise measured data (Sensor ID / User ID / Sample ID). Password function.

Five different languages available (ENG - ITA - FRA - DEU - ESP).
Manual and automatic data logger with the option to download data to a PC via micro USB-C.

Data Link software can be downloaded free of charge from www.giorgiobormac.com.

pH 70 NEX Kit in case

Measuring range:
pH: -2,000...16,000 (0,001 pH)
mV: -1000...+1900 (0,1 - 1 mV)
ORP: -1000...+1900 (0,1 - 1 mV)
Temperature: -10...+110,0 (0,1 °C)

Equipped with:
3 x 1.5 V (AA) alkaline batteries, coloured buffer solutions, USB cable for downloading data to a PC, user manual and carrying case.

	Name	Description	P/N
NEW	**pH 70 NEX** DHS ELECTRODE	Complete with **XS 201 T DHS digital electrode,** with integrated temperature sensor	50120312
NEW	**pH 70 NEX** ANALOG ELECTRODE	Complete with **XS 201 T electrode**, with integrated temperature sensor	50120322
NEW	**pH 70 NEX** WITHOUT ELECTRODE	With accessories, S7-BNC cable and NT55 temperature probe, **without electrode**	50120332
NEW	**pH 70 NEX** FOOD DHS	Complete with **XS 2 Pore T DHS digital penetration electrode,** for the food industry	50120342
NEW	**pH 70 NEX** FOOD	Complete with **XS 2 Pore T penetration electrode ,** for the food industry	50120352

NEW pH 7 NEX

- **Resolution** *0,1 / 0,01 pH*
- High-definition backlit **TFT display**
- Up to **3-point calibration**
- **Memory** for up to 100 measurements

Ergonomic, waterproof professional portable pH meter with innovative high resolution backlit TFT display.
DHS technology.

pH, mV, ORP measurements with option to display temperature.

The online help and calibration guide allows for simple and immediate use of the device.
Automatic pH calibration with USA, NIST buffers up to 3 points or 2 user-defined points.
Automatic 1-point ORP calibration.
Indication of calibrated points.

Measurement stability indicator; possibility to select 3 stability levels.
Possibility to save up to 100 measurements with recall function.

Measuring range:
pH: 0,00...14,00 (0,01 pH)
mV: - 1000... + 1000 (1 mV)
ORP: -1000...+1000 (1 mV)
Temperature: 0...+100,0 (0,1 °C)

Equipped with:
3 x 1.5 V (AA) alkaline batteries
Coloured buffer solutions, user manual and carrying case.

	Name	Description	P/N
NEW	**pH 7 NEX** DHS ELECTRODE	Complete with **XS 201 T DHS digital electrode,** with integrated temperature sensor	50120012
NEW	**pH 7 NEX** ANALOG ELECTRODE	Complete with **XS 201 T electrode**, with integrated temperature sensor	50120022
NEW	**pH 7 NEX** WITHOUT ELECTRODE	With accessories, S7-BNC cable, NT55 temperature probe, **without electrode**	50120032
NEW	**pH 7 NEX** FOOD DHS	Complete with **XS 2 Pore T DHS penetration digital electrode,** for the food industry	50120042
NEW	**pH 7 NEX** FOOD	Complete with **XS 2 Pore T penetration electrode ,** for the food industry	50120052

ACCESSORIES pH

pH ELECTRODES

Name	Description	P/N
XS STANDARD T DHS DIGITAL pH ELECTRODE	**Digital pH electrode combined with DHS technology.** Glass body and cylindrical membrane for general applications. Refillable KCl 3M electrolyte. **Excellent chemical resistance and easy to clean. Included with serial number and certificate.** Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature -10...100 °C**	32200123
XS STANDARD PH ELECTRODE	pH Electrode combined with S7 head**.** Glass body, for general use. Refillable KCl 3M Electrolyte. **Excellent chemical resistance and easy to clean.** **With serial number and certificate.** Dimensions (LxØ mm) 120x 12 - **pH 0...14 - Temperature -10...100 °C**.	32200363
XS POLYMER S7	Combined pH Electrode **S7 head**. Glass Body for general use. Cylindrical membrane. Polymer filling, open pore. **For a fast response with high accuracy in samples that might contamina-te normal diaphragms**. Maintenance-free. Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature -10...80 °C**	32200223
201 T DHS DIGITAL pH ELECTRODE	**Digital pH electrode combined with DHS technology.** Plastic body for general use. Polymer Filling, ceramic diaphragm. Maintenance-free. Dimensions (LxØ) mm 120x12. **pH 0...14 - Temperature 0...60 °C**	32200103
201 T PH ELECTRODE	**Combined pH electrode with NTC temperature sensor integrated.** Plastic body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature 0...60 °C**	50002002
201 T / 5 PH ELECTRODE	**Combined pH electrode with NTC temperature sensor integrated.** Plastic body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 5 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature 0...60 °C**	50002022
XS 2 PORE T DHS DIGITAL pH ELECTRODE	**Digital pH electrode combined with DHS technology**. Glass Body. Filled with polymer, maintenance-free. **Penetration tip, Ideal for meat and cheese samples.** Dimensions (LxØ) mm 35x6 - **pH 0...14, Temperature 0...60 °C**	32200113
XS 2 PORE T BNC + RCA	Glass Body. Filled with polymer, maintenance-free. With temperature sensor integrated NTC 30 KΩ, **Penetration tip. Ideal for meat and cheese samples** Fixed cable 1 mt length, **pH 0...14, Temperature 0...60 °C**	32200323

REDOX ELECTRODES

REDOX ELECTRODE REDOX	Fix cable **1 m**, BNC connector, epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. **Range ± 1.000 mV, Temperature 0...60 °C.** Dimensions (LxØ) 120 x 12 mm	32105302
REDOX / 5 ELECTRODE REDOX	Fix cable **5 m**, BNC connector, epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. **Range ± 1.000 mV, Temperature 0...60 °C.** Dimensions (LxØ) 120 x 12 mm	32105102

TEMPERATURE SENSORS

NT55 TEMPERATURE PROBE	Replacement NTC 30 K temperature probe for XS pH meters, for liquids and air	50002012
NT 7P TEMPERATURE PROBE	Penetration NTC temperature probe, diameter 4 mm, fixed cable 1 m	50011122
NT 55 + CABLE KIT	NT 55 temperature probe kit and 1 m S7/BNC cable	50002032

CONNECTING CABLE

Connecting cable with **S7 head** and BNC plug for XS meters.
Diameter 3 mm, lenght 1 m.

Name		Description	P/N
BNC	Cable S7-BNC		33551733

STANDARD BUFFER SOLUTIONS pH

With certificate of analysis downloadable from www.giorgiobormac.com

25 ml SACHET

Name	Description	p/n
pH 4,01 (25°C)	Pack of 20 red, sachets, 25 ml each, with certificate of analysis	51102013
pH 7,00 (25°C)	Pack of 20 green sachets, 25 ml each, with certificate of analysis	51102023
pH 10,01 (25°C)	Pack of 20 colourless sachets, 25 ml each, , with certificate of analysis	51102043
SET CAL pH BIS	Contains 10 x pH 4.01 and 10 x pH 7.00, sachets 25 ml each	51102203
SET CAL pH TRIS	Contains 7 x pH 4.01, 7 x pH 7.00, 6 x pH 10.01, sachets 25 ml each	51102213
RICAMBIO pH	Contains 6 x pH 4.01, pH 7.00, H2O 25 ml sachets and 2 x Storage 10 ml sachets	51102243
STORAGE	Pack of 20 x 10 ml sachets of storage solution for pH/ORP sensors	51102083
H2O	20 sachets 25 ml each, of distilled water for cleaning sensors	51102093

250 ml BOTTLE with integrated calibration compartment

Name	Description	p/n
pH 4,01	±0,02 / 25°C - Red	51100033
pH 7,00	±0,02 / 25°C - Green	51100043
pH 10,01	±0,02 / 25°C - Colourless	51100063

500 ml BOTTLE with integrated calibration compartment

Name	Description	p/n
pH 4,01	±0,02 / 25°C - Red	51100133
pH 7,00	±0,02 / 25°C - Green	51100143
pH 10,01	±0,02 / 25°C - Colourless	51100163

STORAGE SOLUTION

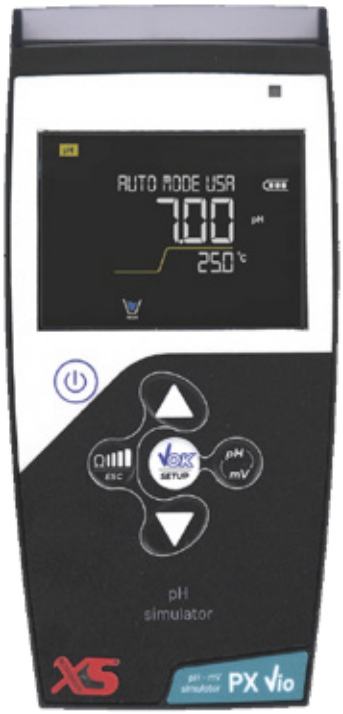
Name	Packaging	p/n
STORAGE SOLUTION FOR ELECTRODES	55 ml	32208043
STORAGE SOLUTION FOR ELECTRODES	500 ml	32208053

ACCESSORIES

Name	Description	p/n
ECOSTIR MAGNETIC STIRRER	Variable speed magnetic stirrer complete with electrode holder, magnetic stir bar and mains power suppl	22001953
ELECTRODE HOLDER MOD: 3900	Stand with flexible electrode holder with arm and base	50000112
IP67 CASE	IP 67 watertight case for Vio portable instruments	50010972
SOFTCASE	Bag with adjustable shoulder strap made from eco-friendly material for portable instruments Vio/Nex	50010962
POWER SUPPLY VIOLAB - BENCHTOP	5V power supply for Violab series bench instruments	50001062
NEW **POWER SUPPLY** NEX - PORTABLE	Power supply for XS NEX portable instruments	50001612

PX √io

pH - mV SIMULATOR



- pH/mV selection
- USA/NIST standard pH buffer **simulation**
- **32 preset** pH and mV values
- **5 pH values + 5 mV values** settable by the user
- **High impendence** input test
- **Large,** easy-to-read **display**
- **Intuitive** controls
- **Ergonomic,** one-handed operation
- **Robust,** splash-proof construction
- **Battery level indication**

The large, high-definition colour LCD display allows immediate visualisation of all the information and parameters needed to use the instrument.

In addition to pH, simulation of the most common REDOX / ORP solution values, even at different temperatures thanks to the stored temperature tables.

High impedance simulation verifies the efficiency of the pH meter input circuit and the good insulation of the pH/RX electrode connection cable.

In automatic mode, the simulator allows the following values to be selected:
pH
• USA buffers: 1,68 / 4,01 / 7,00 / 10,01 / 12,45
• NIST buffers: 1,68 / 4,00 / 6,86 / 9,18 / 12,46

mV / ORP solutions
• 1900 / 900 / 177 / 0 / -177 / -900 / -1900 mV
• 200 / 250 / 468 / 475 / 650 mV
(Even at different temperatures)

The keyboard is splash-proof and designed for simple and immediate operation.

The KIT INCLUDES
Instrument, BNC-BNC cable.
Coloured pH buffer solutions,
user manual, test report, Hard suitcase.

Name	Description	P/N
PX COMPLETE KIT	Simulator in suitcase + cables (BNC – BNC/BNC – DIN / BNC – S7 / BNC – open wires)	50111322
PX	Simulator in suitcase	50111312
S7 MALE - BNC CABLE	Useful for checking connecting cables	33550813
BNC - BNC CABLE		33550833
BNC - DIN CABLE		33550843
BNC CABLE - OPEN WIRES		33550823

CONDUCTIVITY METERS

PORTABLE INSTRUMENTS WARRANTY 3 YEARS

BENCHTOP INSTRUMENTS WARRANTY 3 YEARS

MADE IN ITALY

COMPANY WITH QUALITY MANAGEMENT SYSTEM **UNI EN ISO 9001:2015** CERTIFIED BY CERTIQUALITY

HOW TO CHOOSE

	Violab COND 50	Violab COND 60	COND 8 PRO	COND 80 PRO
COND and TDS	●	●	●	●
Salinity	○	●	●	●
Resistivity	○	○	○	●
Ultra pure water compensation	○	○	○	●
Display	colour backlit LCD	colour backlit LCD	Colour graphic	Colour graphic
GLP Calibration	○	●	●	●
Calibration password	○	○	●	●
Calibration points	4	4	4	4
Calibration due alarm	○	●	●	●
Electrode status indication	○	○	●	●
Data logger	○	●	●	●
PC / printer connection	○	●	●	●
Multilanguage menu	○	○	●	●
Account manager + audit trail	○	○	○	●
External keyboard	○	○	○	●

COND 80 PRO

- **Resolution** *0,01 µS* - 4-rings sensor
- Automatic and manual **temperature compensation**
- **Advanced user management** *(4 levels, 15 profiles)*
- **Data logger,** *8000 measurements in GLP*
- **Menu Analysis** *for data tracking* **+ Audit Trail**
- *Customisable* **print templates**
- **Multiview**

Digital benchtop **conductivity meter** for advanced laboratory analysis.
Automatic calibration up to 4 conductivity standards (84, 1413 µS, 12.88 mS, 111.8 mS) from 1 to 4 points with calculation of different cell constants or 1 point of user's choice.
Automatic scale change, automatic and manual temperature compensation (0...100,0 °C).
Reference temperature (15...30 °C), Linear (0.00...10.00%) and **non-linear temperature coefficient for ultrapure water**.
Compatible with **4-rings and 2-rings cells**, with indication of the selected constant.
Calibration due warning and/or measurement block.

Alarm setting and **analogic view**, **'Hold', stability indication, self-diagnosis messages.**
Advanced user management (Admin, Manager, User, Guest) with different permissions.
Data logger modes: Manual, Automatic, Min/Max, Delta value.
Analysis menu for complete editing of your measurements: you can enter all useful information on the sample and test.
Multiview (up to 6 user-selectable parameters can be displayed simultaneously).
Customisable print templates. Multilingual Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).
Free **Data-Link+** software available at www.xsinstruments.com for PC data management, including Audit Trail.
2 USB outputs for external keyboard and PC connection. RS232 for printer connection.
Independently controlled magnetic stirrer (optional).

Measuring range:
Cond: 0,1 µS ...1 S (0,01 µS - automatic)
TDS: 0,1 mg/l...500,0 g/l
Salinity: 0,1 ppm...100,0 ppt
Resistivity: 1,00 Ω ...10,00 MΩ
Temperature: -30... +130,0 (0,1 °C)

Equipped with:
Electrode holder stand, conductivity standards, external keyboard, USB cable, multi-socket power supply and user manual.

Name	Description	P/N
COND 80 PRO STIRRER	Complete with **conductivity cell EPT 4 with four rings**, **integrated temperature sensor**, **and magnetic stirrer** with adjustable speed	50103392
COND 80 PRO STIRRER	Complete with **EC cell VPT 1 glass/platinum** (C=1) with **integrated temperature sensor**, **and magnetic stirrer** with adjustable speed	50103402
COND 80 PRO STIRRER	**Without EC cell**, with magnetic stirrer with adjustable speed	50103412
COND 80 PRO BASIC	Complete with **conductivity cell EPT 4 with four rings** and **integrated temperature sensor**, without magnetic stirrer	50103442
COND 80 PRO BASIC	Complete with **EC cell VPT 1 glass/platinum** (C=1) with **integrated temperature sensor**, without magnetic stirrer	50103422
COND 80 PRO BASIC	Without EC cell and magnetic stirrer	50103432
KEYBOARD	Soft external keyboard for **XS 80 PRO Series**	50001462
IQ-OQ MANUAL 80 SERIES	Paper manual IQ-OQ for **XS 80 PRO Series**	50001472

COND 8 PRO

- **Resolution** *0,01 µS*
- Coloured backlit high definition **LCD display**
- Automatic and manual **temperature compensation**
- **Data logger** auto and manual , **up to 1000** *measurements in GLP*

Digital benchtop conductivity meter.
Automatic calibration up to 4 conductivity standards (84, 1413 µS, 12.88 mS, 111.8 mS) from 1 to 4 points with calculation of different cell constants or 1 point of user's choice.
Recall and printout of calibration data.
Automatic scale change, automatic and manual temperature compensation (0...100.0 °C). Reference temperature (15...30 °C).
Linear temperature coefficient (0.00...10.00%).
2 rings cell technology with selection and indication of cell constant (0.1 - 1.0 - 10).
Calibration due warning and/or measurement block.
Alarm setting and analogic view, "**Hold**", stability indication, **self-diagnosis messages.**
Numeric password for protection of saved data and calibration management.
Data logger up to 1000 measurements in GLP with possibility of printing and data download to PC.
Multilingual Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).
Free Data-Link+ software available at www.xsinstruments.com for PC data management data to PC.
USB output for PC connection.
RS232 for printer connection. Independently controlled magnetic stirrer (optional).

Measuring range:
Cond: 0,1 µS ...500 mS (0,01 µS - automatic)
TDS: 0,1 mg/l...200,0 g/l
Salinity: 0,1 ppm ...100,0 ppt
Temperature: -20...+120,0 (0,1 °C)

Equipped with:
Electrode holder stand, conductivity standards, USB cable, multi-socket power supply and user manual.

Name	Description	P/N
COND 8 PRO STIRRER	**Complete with epoxy EC cell 2301T** (C=1) integrated temperature sensor, and magnetic stirrer with adjustable speed	50103232
COND 8 PRO STIRRER	Without EC cell, **with magnetic stirrer** with adjustable speed	50103242
COND 8 PRO BASIC	**Complete with epoxy EC cell 2301T** (C=1) integrated temperature sensor, without magnetic stirrer	50103202
COND 8 PRO BASIC	Without EC cell and magnetic stirrer	50103212
IQ-OQ MANUAL SERIES 8	Paper manual IQ-OQ for **XS 8 PRO Series**	50001492

ACCESSORIES 8 / 80 PRO SERIES

Name	Description	P/N
PRINTER	External printer with normal paper for **XS VIOLAB 60 - 8 PRO - 80 PRO** , power supply and RS232 cable included	50001502
STIRRER	**Magnetic stirrer with adjustable speed for XS 8 PRO and 80 PRO series**, complete with electrode holder and connecting cable	50001132

COND 60 Violab

- **Resolution** *0,01 µS*
- Coloured backlit high definition **LCD display**
- Automatic and manual **temperature compensation**
- **Data logger** auto and manual , **up to 1000** *measurements in GLP*
- **PC/Printer** connection

Professional benchtop conductivity meter with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment.
Possibility to select the parameters to show on the display.
The **step by step guide** in setup and calibration allows a simple and immediate use of the device.
Automatic conductivity calibration up to 4 points (84; 147; 1413 µS e 12,88; 111,8 mS) or 1 point custom.
Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell costant (C= 0,1; 1; 10).
Indication of the calibrated points, with icons.
Measurement stability indication.
All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and **self-diagnosis messages.**
GLP function: Date and time, recall of calibration data and function "**Calibration due**".
Data logger up to 1000 measurements, manual and automatic, PC connection via micro-USB.

Data-Link + software available at www.xsinstruments.com.
RS 232 external printer connection.

Measuring range
Cond: 0,1 µS ...200 mS (0,01 µS - automatic)
TDS: 0,1 mg/l...200 g/l
Salinity: 0,1 ppm ... 100 ppt
Temperature: - 10...+ 110,0 (0,1 °C)

Equipped with:
Electrode holder stand, conductivity standards, USB cable, power supply and instructions for use.

Name	Description	P/N
COND 60 VIOLAB WITH EC CELL	**Complete with conductivity cell2301T** , integrated temperature sensor, 1 m cable	50103072
COND 60 VIOLAB WITHOUT EC CELL	With accessories, **without conductivity cell**	50103082

COND 50 Violab

- **Resolution** *0,01 µS*
- Coloured backlit high definition **LCD display**
- Automatic and manual **temperature compensation**

Professional benchtop conductivity meter with **innovative backlit high definition coloured LCD display**, with possibility of brightness adjustment.
Possibility to select the parameters to show on the display.
The **step by step guide** in setup and calibration allows a simple and immediate use of the device.
Automatic conductivity calibration up to 4 points (84; 147; 1413 µS e 12,88; 111,8 mS) or 1 point custom.
Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell costant (C= 0,1; 1; 10).
Indication of the calibrated points, with icons.
Measurement **stability indication**.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and **self-diagnosis messages.**

Measuring range
Cond 0,1 µS ...200 mS (0,01 µS - automatic)
TDS: : 0,1 mg/l...200 g/l
Temperature: 0...+100,0 (0,1 °C)

Equipped with:
Electrode holder stand, conductivity standards and instructions manual.

Name	Description	P/N
COND 50 VIOLAB WITH EC CELL	**Complete with conductivity cell 2301T** , integrated temperature sensor, 1 m cable	50103002
COND 50 VIOLAB WITHOUT EC CELL	With accessories, **without conductivity cell**	50103012

NEW Cond 73 NEX

- **Resolution** 0.01 µS/cm
- **EPT 4 conductivity cell (4 rings)** up to 1000 mS/cm
- High-definition, backlit **TFT display**
- Conductivity **calibration up to 4 points**
- Automatic **temperature compensation**
- **Multiview screen** up to 4 parameters
- Manual and automatic **data logger,** up to 1000 measurements in GLP
- **5 different languages** available
- Sensor ID / User ID / Sample ID **- Password function**

Professional, ergonomic, waterproof portable conductivity meter with innovative high-resolution backlit TFT display.
Power supply with alkaline batteries (AA) or USB-C.
Multipin connection for EPT4 4-ring cell.

Conductivity, TDS and salinity measures, Multiview display option including temperature.
Automatic conductivity calibration up to 4 points (including 5 µS/cm) or 1 user-defined point.
Adjustable reference temperature (15...30 °C). Different TDS conversion factors.
Indication of calibrated points.
Measurement stability indicator. HOLD function.

GLP functions: Date and time, calibration data display and calibration expiry setting with measurement lock.
Possibility to customise measured data (Sensor ID / User ID / Sample ID). Password function.

Five different languages available (ENG - ITA - FRA - DEU - ESP).
Manual and automatic data logger with the option to download data to a PC via micro USB-C.

Data Link software can be downloaded free of charge from www.giorgiobormac.com.

Cond 73 NEX Kit in case

Measuring range:
Cond: 0,1 µS ...1000,0 mS (0,01 µS - automatic)
TDS: 0,1 mg/l ... 500,0 g/l
Salinity: 0,1 ppm ... 100 ppt
Temperature: -10...+110,0 (0,1 °C)

Equipped with:
3 x 1.5 V (AA) alkaline batteries, conductivity standard, USB cable, user manual and carrying case.

Name	Description	P/N
NEW **COND 73 NEX** WITH CELL	Complete with EPT4 4-ring cell, 1 m fixed cable	50121512
NEW **COND 73 NEX** WITHOUT CELL	Instrument with accessories, but without cell	50121522

NEW Cond 7 NEX

- **Resolution** 0.01 µS/cm
- **2-ring** conductivity cell (0.1 - 1 -10)
- High-definition, backlit **TFT display**
- **Conductivity calibration** up to 4 points
- Manual or automatic **temperature compensation**
- **Memory** up to 100 measurements

Professional, ergonomic, waterproof portable conductivity meter with innovative high resolution backlit TFT display.
Power supply with alkaline batteries (AA) or USB-C.
BNC+RCA connection for 2-ring conductivity cell.

Conductivity, TDS, salinity measurements with temperature display.
Automatic conductivity calibration up to 4 points or 1 user-defined point.
Adjustable reference temperature (15...30 °C) and selectable cell constant.
Indication of calibrated points.
Measurement stability indicator. HOLD function.

Possibility to save up to 100 measurements with recall.

Cond 7 NEX Kit in case

Measuring range:
Cond: 0,1 µS ...200,0 mS (0,01 µS - automatic)
TDS: 0,1 mg/l ... 200,0 g/l
Salinity: 0,1 ppm ... 100 ppt
Temperature: 0 ... 100,0 (0,1 °C)

Equipped with:
3 x 1.5 V alkaline batteries (AA)
Conductivity standard, user manual and carrying case.

	Name	Description	P/N
NEW	**COND 7 NEX** WITH CELL	Complete **with 2301T conductivity cell with built-in temperature sensor**. 1 m fixed cable	50121212
NEW	**COND 7 NEX** WITHOUT CELL	Instrument with accessories, **without conductivity cell**	50121232
NEW	**COND 7 NEX** WITHOUT CELL	Complete **with EPT1 cell with built-in temperature sensor**. 1 m fixed cable	50121222

ACCESSORIES

CONDUCTIVITY CELLS

Name	Description	P/N
EPT 4 EC CELL	Cell in epoxy body C= 0.55, fixed cable, Multipin connector only for 80 PRO and 73 Series. Measuring range : 0.1 µS...1 S, Temperature 0...+80 °C,	50003362
VP 1 EC CELL	Cell in glass body with platinum plates C=1, fixed cable 1 mt. with BNC plug. Measuring range: 10µS...10 mS – Temperature 0...80 °C	50004062
VPT 1 EC CELL	Cell in glass body with platinum plates C=1, with integrated temperature sensor. Fixed cable 1 mt., BNC + RCA Cinch plug. Measuring range: 10µS...100 mS – Temperature 0...80 °C	50003352
VPT 01 EC CELL	Steel and PVC cell, C=0,1, with integrated temperature sensor. Fixed cable 1 mt., BNC + RCA plug. Measuring range: 0,1µS...1 mS – Temperature 0...60 °C	50004012
VPT 10 EC CELL	Cell in glass body with platinum plates C=10, integrated temperature sensor, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS...200 mS..	50004072
VPT 10 H EC CELL	Cell in glass body with platinum plates C=10, integrated temperature sensor, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS...500 mS. Only for XS REVIO and COND 80 PRO	50003372
2301 T EC CELL	Cell in epoxy body C=1, with integrated temperature sensor. Fixed cable 1 mt. BNC+RCA cinch plug. Measuring range: 10µS...200 mS – Temperature 0...60 °C	50004002
2301 T / 5 EC CELL	Cell in epoxy body C=1, with integrated temperature sensor. Fixed cable 5 mt. BNC+RCA cinch plug. Measuring range: 10µS...200 mS – Temperature 0...60 °C	50004022
VPT SOIL EC CELL	Conductivity cell with integrated temperature sensor and penetration tip, C=1, for soil measurement, cable 1,5 m.Measuring range 10 µS...50 mS	50004082
EPT 1 EC CELL	Cell in epoxy body C==1, with integrated temperature sensor. Fixed cable 1 m, BNC-Cinch. Measuring range 10µS...100 mS. For oily or viscous samples.	50003382

TEMPERATURE PROBE

Name	Description	P/N
NT 55 TEMPERATURE SENSOR	Temperature sensor NTC 30KΩ for liquids and air	50002012

BUFFER SOLUTIONS

With **certificate of analysis** downloadable from www.xsinstruments.com

SACHETS 25 ml

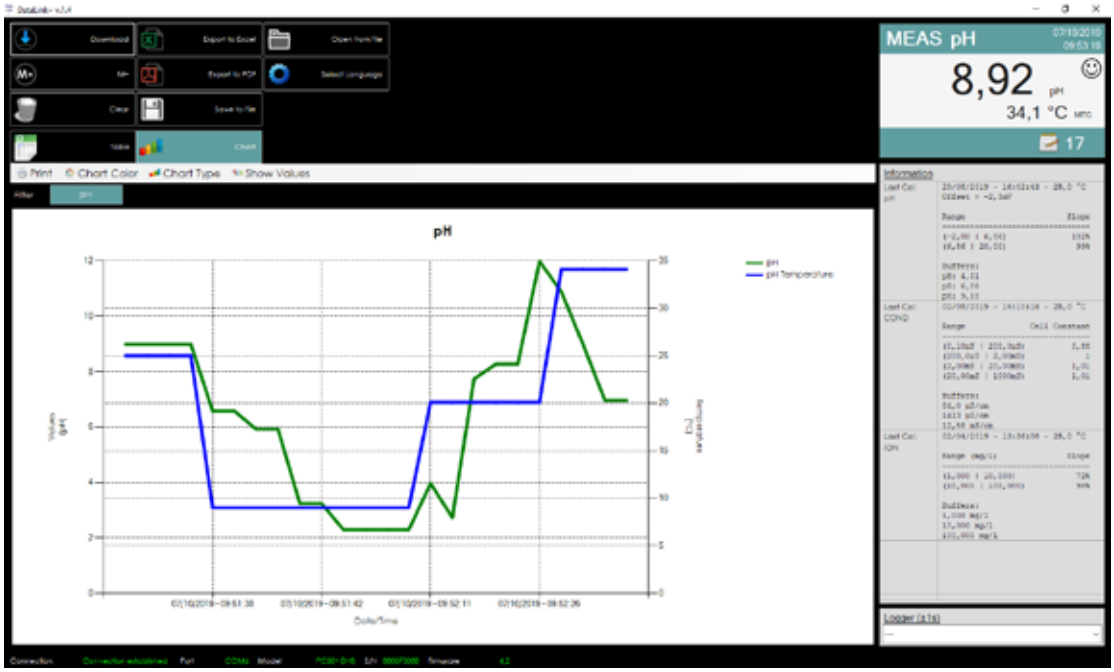
Name	Description	P/N
EC 1413 µS/cm (25°C)	Pack of 20 sachets, with certificate of analysis	51102053
EC 12880 µS/cm (25°C)	Pack of 20 sachets, with certificate of analysis	51102063
SET CAL COND	Includes 10 x EC 1.413 µS and 10 x EC 12.880 µS sachets	51102223
COND REPLACEMENT	Includes 7 x EC 1.413 µS, EC 12.880 µS and 6 x deionized H2O sachets	51102253
H2O	Pack of 20 sachets of deionized water	51102093

BOTTLE 500 ml , with calibration compartment

Name	Description	P/N
84 µS/cm (25°C)	N.I.S.T. Accuracy ±1%	51100613
147 µS/cm (25°C)	N.I.S.T Accuracy ±1%	51100623
1413 µS/cm (25°C)	1278 µS/cm (20°C) - N.I.S.T. Accuracy ±1%	51100633
12.880 µS/cm (25°C)	11670 µS/cm (20°C) - N.I.S.T. Accuracy ±1%	51100643

Name	Description		P/N
NEW **ECOSTIR** STIRRER	**Magnetic stirrer, adjustable speed,** with magnetic bar and power supply.		22001953
ELECTRODE HOLDER MOD: 3900	Flexible electrode holder		50000112
PRINTER	External printer with normal paper for XS 8 / 80 SERIES XS VIOLAB 60 power supply and RS 232 cable		50001502
CASE IP67	IP 67 waterproof case for Vio portable instruments		50010972
SOFT CASE	Bag with adjustable shoulder strap in eco-friendly material for Vio portable instruments		50010962
SUPPORT VIO - PORTABLE	Magnetic support for Vio portable instruments		50110252
POWER SUPPLY VIOLAB - BENCHTOP	Power supply and cable for XS VioLab benchtop series		50001062

DATA LINK +



On the software are shown all the information about the instruments and calibrations, like slope and offset.
It is possible to view all saved data in graphic form, to see the trend, or in table form.
It is also possible to export data in Excel and in PDF.
On the top right corner the real time view allows to check measurement directly on the PC.
Multilanguage: English - Italian - French - German - Spanish - Portuguese.
Functions for the remote control of the instruments, like data saving and memory reset.

Software ***Data Link +*** available for free on our website www.xsinstruments.com.

Brochures ***XS Vio and XS VioLab*** are available on our website www.xsinstruments.com

MULTIPARAMETERS

PORTABLE INSTRUMENTS WARRANTY 3 YEARS

BENCHTOP INSTRUMENTS WARRANTY 3 YEARS

MADE IN ITALY

COMPANY WITH QUALITY MANAGEMENT SYSTEM
UNI EN ISO 9001:2015
CERTIFIED BY CERTIQUALITY

HOW TO CHOOSE

	Violab PC50	Violab PC 60	PC 8 PRO	PC 80 PRO
pH Resolution	0,01 pH	0,01 pH	0,001 pH	0,001 pH
ION	○	○	○	●
COND e TDS	●	●	●	●
Salinity	○	●	●	●
Resistivity	○	○	○	●
Ultra pure water compensation	○	○	○	●
Display	colour backlit LCD	colour backlit LCD	colour graphic	colour graphic
Analogic view	○	○	●	●
GLP Calibration	○	●	●	●
Calibration password	○	○	●	●
Calibrations points	3	3	5	5
Calibration due alarm	○	●	●	●
Electrode status indication	○	○	●	●
Data logger	○	●	●	●
PC / Printer connection	○	●	●	●
Multilanguage	○	○	●	●
Account manager + Audit trail	○	○	○	●
External keyboard	○	○	○	●

PC 80 PRO

- **Resolution** 0.1 / 0.01 / 0.001 pH - 0.01 µS
- Automatic and manual **temperature compensation**
- **Advanced user management** *(4 levels, 15 profiles)*
- **Data logger,** *8000 measurements in GLP*
- **Menu Analysis** *for data tracking* **+ Audit Trail**
- *Customisable* **print templates**
- **Multiview**

Digital benchtop multiparameter for advanced laboratory analysis.
Multiview display (up to 6 parameters simultaneously).
Automatic or manual 5-points pH calibration with automatic standard recognition.
ISE calibration from 2 to 5 points.Automatic or manual ORP calibration on 1 point.
Automatic EC calibration up to 1 to 4 points with recognition of standards and calculation of different cell constants + 1 manual point.
Automatic scale, automatic and manual temperature compensation (0...100.0 °C).
Reference temperature (15...30 °C), linear (0.00...10.00%) and **non-linear temperature coefficient for ultrapure water.**
Compatible with 4-rings and 2-rings cells, with indication of selected constant.
Calibration due warning and/or measurement block.
Alarm setting and display functions in analogue format, **"Hold", stability indication, self-diagnosis messages.**
Advanced management of Users (Admin, Manager, User, Guest) with different permissions.
Different data logger modes (Manual, Automatic, Min/Max, Delta value).
Analysis menu for complete editing of your measurements: you can enter all useful informations about the sample and test.
Customisable print templates. Multilanguage Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).
Free **Data-Link+** software at www.xsinstruments.com for PC data management, including **Audit Trail**.
2 USB outputs for external keyboard and PC connection. RS232 port for printer connection.
Independently controlled magnetic stirrer (optional).

Measuring range:
pH: -2,000...20,000 (0,001 pH)
mV: -2000...+2000 (0,1 - 1 mV)
ORP: -2000...+2000 (0,1 -1 mV)
ISE: 0.001...19999 ppm

Cond: 0,1 µS ...1 S (0,01 µS - automatic)
TDS: 0,1 mg/l...500,0 g/l
Salinity: 0,1 ppm...100,0 ppt
Resistivity: 1 Ω ...10 MΩ
Temperature: -30...130,0 °C (0,1 °C)

Equipped with:
S7/BNC cable, temperature probe NT 55, electrode holder, buffer solutions, USB cable and power supply.

Name	Description	P/N
PC 80 PRO DHS ELECTRODE + 4 RINGS	**Complete with pH XS Standard DHS**, **EC cell EPT 4** (C=0,55) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104302
PC 80 PRO DHS ELECTRODE + 2 RINGS	**Complete with pH XS Standard DHS**, **EC cell VPT 1** glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104232
PC 80 PRO ELECTRODE + 4 RINGS	**Complete with pH XS Standard**, **EC cell EPT 4** (C=0,55) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104282
PC 80 PRO ELECTRODE + 2 RINGS	**Complete with pH XS Standard**, **EC cell VPT 1** glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104242
PC 80 PRO 4 RINGS CELL	**Without pH electrode**, **with EC cell EPT 4** (C=0,55) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104292
PC 80 PRO 2 RINGS CELL	**Without pH electrode**, **with conductivity cell VPT 1** glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104252
PC 80+ PRO PH ELECTRODE	**With pH electrode XS Standard**, **without conductivity cell ,** magnetic stirrer with adjustable speed.	50104262
PC 80 PRO STIRRER	**Without pH electrode**, without **conductivity cell**, with magnetic stirrer with adjustable speed.	50104272
KEYBOARD	Soft external keyboard for **XS 80 PRO Series**	50001462
IQ-OQ MANUAL	Paper manual IQ-OQ for **XS 80 PRO Series**	50001472

PC 8 PRO

- **Resolution** *0,1 / 0,01 / 0,001 pH - 0,01 µS*
- Backlit coloured high-definition **graphic display**.
- **Automatic** and manual **temperature compensation**
- **Data logger** auto and manual, up to **1000 measurements** *in GLP*

Digital benchtop multiparameter.
Automatic pH calibration (5 values) on different standard buffer, or custom (2 values).
Automatic and manual 1-point ORP calibration.
Automatic calibration up to 4 conductivity standards (84, 1413 µS, 12.88 mS, 111.8 mS) from 1 to 4 points with calculation of different cell constants or 1 point custom. **Recall and printout of calibration data**.
Automatic scale, **automatic and manual temperature compensation** (0...100.0 °C).
Reference temperature (15...30 °C). Linear temperature coefficient (0.00...10.00%)
2-rings cell technology with selection and indication of constant (0.1 - 1.0 - 10).
Calibration due warning and/or measurement block.
Alarm setting and analogic view, "Hold", stability indication, self-diagnosis messages
Security password for saved data and calibration management.
Data logger for up to 1000 measurements in GLP with possibility of printing and data download to PC.
Multilanguage Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).
Free **Data-Link+** software at www.xsinstruments.com for PC data management.
USB output for PC connection. RS232 port for printer connection.
Independently controlled magnetic stirrer (optional).

Measuring range:
pH: -2,000...16,000 (0,001 pH)
mV: -2000...+2000 (0,1 mV - 1 mV)
ORP: -2000...+2000 (0,1 -1 mV)
Cond: 0,1 µS ...500,0 mS (0,01 - automatic)
TDS: 0,1 mg/l...200,0 g/l
Salinity: 0,1 ppm...100,0 ppt
Temperature:-20...120,0 °C (0,1 °C)

Equipped with:
S7/BNC cable, temperature probe NT 55, electrode holder, buffer solutions, USB cable and power supply.

Name	Description	P/N
PC 8 PRO STIRRER	**Complete with pH XS Standard DHS**, **EC cell 2301 T** glass/platinum (C=1) with tintegrated temperature sensor, magnetic stirrer with adjustable speed.	50104132
PC 8 PRO STIRRER	**Complete with pH XS Polymer**, **EC cell 2301 T** glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104142
PC 8 PRO STIRRER	**Without pH electrode**, **with conductivity cell 2301 T** glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104152
PC 8 PRO STIRRER	**With pH electrode polymer, without conductivity cell,** Temperature probe NT55, magnetic stirrer with adjustable speed	50104162
PC 8 PRO STIRRER	**Without pH electrode, without conductivity cell,** Temperature probe NT55, magnetic stirrer with adjustable speed	50104172
IQ-OQ MANUAL	Paper manual IQ-OQ for **XS 8 PRO Series**	50001492

ACCESSORIES 8 / 80

Name	Description	P/N
PRINTER	External printer, **normal paper** with RS 232 cable	50001502
STIRRER	**Magnetic stirrer with adjustable speed for 8 and 80 Series**, complete with electrode holder and connecting cable	50001132

PC 60 Violab

- **Resolution** *0,1 / 0,01 pH - 0,01 µS*
- Automatic and manual **temperature compensation**
- **Data logger** auto and manual , **up to 1000 savings** *in GLP*
- **PC/Printer** connection
- **DHS digital sensors** management

Professional benchtop multiparameter with innovative **backlit high definition**
coloured LCD display, with possibility of brightness adjustment.
Management of DHS digital sensors.
Possibility to select the parameters to show on the display.
The **step by step guide** in setup and calibration allows a simple and immediate use of the device.
Automatic pH calibration with USA and NIST buffers, up to 3 points and 2 points defined by the user.
Automatic ORP calibration on 1 point.
Automatic conductivity calibration up to 4 points (84; 147; 1413 µS e 12,88; 111,8 mS) or 1 point custom.
Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell costant (C= 0,1; 1; 10).
Indication of the calibrated points, with icons.
Measurement **stability indication** and possibility to select 3 stability levels.
All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.
GLP function: Date and time, recall of calibration data and function "Calibration due".
Data logger up to 1000 savings, manual and automatic, PC connection via **micro-USB.**
Data-Link + software available at www.xsinstruments.com.
RS 232 external **printer connection.**

Measuring range:
pH: -2,00...16,00 (0,01 pH)
mV: -1000...+1900 mV (0,1 - 1 mV)
ORP: -1000...+1900 mV (0,1 - 1 mV)
Cond: 0,1 µS ...200,0 mS (0,01 µS - automatic)
TDS: 0,1 mg/l...200 g/l
Salinity: 0,1 ppm ... 100 ppt
Temperature:-10...110,0 °C (0,1 °C).

Equipped with:
Electrode holder stand, pH and conductivity buffer solutions, USB cable, power supply and user manual.

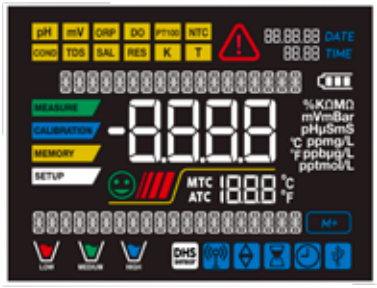
Name	Description	P/N
PC 60 VIOLAB DHS ELECTRODE	**Complete with digital pH electrode XS 201 T DHS and conductivity cell 2301T** (C=1) , both with integrated temperature sensor	50103942
PC 60 VIOLAB ANALOG ELECTRODE	**Complete with pH electrode XS 201 T and conductivity cell 2301T** (C=1) , both with integrated temperature sensor	50103952
PC 60 VIOLAB WITHOUT ELECTRODE	With conductivity cell 2301T (C=1) with integrated temperature sensor, accessories, cable S7-BNC and temperature sensor NT 55 **Without pH electrode**	50103972

PC 50 Violab

- **Resolution** *0,1 / 0,01 pH - 0,01 µS*
- Automatic and manual **temperature compensation**
- **DHS digital sensors** management

Professional benchtop multiparameter with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment.
Possibility to select the parameters to show on the display.
The **step by step guide** in setup and calibration allows a simple and immediate use of the device.
Automatic pH calibration with USA and NIST buffers, up to 3 points or 2 points defined by the user.
Automatic ORP calibration on 1 point.
Automatic conductivity calibration up to 4 points (84; 147; 1413 µS e 12,88; 111,8 mS) or 1 point custom.
Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell costant (C= 0,1; 1; 10).
Indication of the calibrated points, with icons.
Measurement stability indication and possibility to select 3 stability levels.
All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.

Measuring range:
pH: 0,00...14,00 (0,01 pH)
mV: -1000...+1000 (1 mV)
ORP: -1000...+1000 mV (1 mV)
Cond: 0,1 µS ...200 mS (0,01 µS - automatic)
TDS: 0,1 mg/l...200,0 g/l
Temperature: 0...100,0 °C (0,1 °C).



Coloured backlit LCD display

Equipped with:
Electrode holder stand, pH and conductivity buffer solutions, power supply and user manual.

Name	Description	P/N
PC 50 VIOLAB DHS ELECRODE + CELL	**Complete with digital pH electrode XS 201 T DHS and conductivity cell 2301T (C=1)**, both with integrated temperature sensor	50103892
PC 50 VIOLAB ELECTRODE + CELL	**Complete with pH electrode XS 201 T and conductivity cell 2301T** (C=1), both with integrated temperature sensor	50103902
PC 50 VIOLAB WITHOUT ELECTRODE	**With conductivity cell** 2301T (C=1) with integrated temperature sensor, accessories, cable S7-BNC and temperature sensor NT 55 **Without pH electrode**	50103912

REVIO

WARRANTY 3 YEARS

- 3 Inputs: pH / ORP / ISE - Cond - O2
- Colour graphic display
- Data logger, manual and automatic, up to 10.000 measurements in GLP

Professional portable multiparameter with triple **power supply** (battery, PC, electric network) with **innovative backlit colour display**, suitable to work excellently in any conditions, thanks to the automatic and manual adjustment of contrast and brightness.
Possibility to measure **pH, mV, ORP, ISE, Conductivity, TDS, Salinity, Resistivity, Dissolved Oxygen and Temperature**.
The **step by step** guide in setup and calibration mode allows a simple and intuitive use of the device.
Simultaneous display of multiple parameters defined by the user.
Automatic pH calibration with USA and NIST buffers up to 5 points or 5 points defined by the user.
Automatic ORP calibration in 1 point.
Automatic calibration of conductivity up to 4 points or 1 point defined by the user.
Adjustable reference temperature and selectable cell constant.
Automatic calibration up to 2 points (0% - 100%).
Indication with icons of the calibrated points.
GLP functions: Date and time, recall of calibration data and setting of calibration deadline.
Manual and automatic data logger with possibility to download data to PC via micro-USB.
Data Link+ software available to download for free at www.xsinstruments.com.
Stability indicator of measurement and possibility to select 3 stability levels.
All operations are constantly monitored and reported to the user through the **coloured LED** above the display and the self-diagnosis messages.

XS Revio connectors

Measuring range
pH: -2,000...20,000 (0,001 pH)
mV: -2000...+2000 (0,1 - 1 mV)
Orp: -2000...+2000 (0,1 - 1 mV)
ISE: 0.001...19999 ppm
Cond: 0,01 µS ...1000 mS (0,1 µS - automatic)
TDS: 0,1 mg/l...500,0 g/l
Salinity: 0,01 ppm ... 100 ppt
Resistivity: 1 Ω ...10 MΩ
DO: 0,0...50 mg/l (0,01 - 0,1 mg/l)
Saturation: 0,0...400 % (0,1 %)
Barometric pressure: 300...1100 mbar (1 mbar)
Temperature: -30...130,0 °C (0,1 °C)

Equipped with:
Field support with 3 holes for electrodes, buffer solutions, USB cable, power supply, instructions for use and carrying case

MODELS

Name	Description	P/N
REVIO DHS KIT	Complete with **digital pH electrode 201 T DHS, conductivity cell 2301 T and polarographic sensor**, with integrated temperature sensor and fixed cable 3m, in carrying case.	50110952
REVIO KIT IN CARRYING CASE	Complete with **pH electrode 201 T, conductivity cell 2301T and polarographic sensor**, with integrated temperature sensor and fixed cable 3m, in carrying case.	50110912
REVIO KIT IN SOFT CASE	Complete with **pH electrode 201 T, conductivity cell 2301T and polarographic sensor**, with integrated temperature sensor and fixed cable 3m, in soft bag.	50110982
REVIO pH ELECTRODE + OXY	Complete with **electrode XS 201 T and polarographic sensor**, both with integrated temperature sensor and fixed cable 3m, in carrying case.	50110922
REVIO COND + OXY	Complete with **conductivity cell 2301T and polarographic sensor**, both with integrated temperature sensor and fixed cable 3m, cable S7-BNC and NT55 3m, in carrying case.	50110942
REVIO ONLY INSTRUMENT	Instrument in carrying case with NT55 probe with cable 3m, cable S7-BNC, and accessories	50110932
NEW **REVIO** ELECTRODE + CELL	Complete with **pH electrode 201 T, conductivity cell 2301T**, with integrated temperature sensor and fixed cable 3m, in carrying case.	50110992

ACCESSORIES

ELECTRODES AND SPARE PARTS

Name	Description	P/N
201 T - DHS pH ELECTRODE - 3 m	**Digital** pH electrode combined with DHS technology with integrated temperature sensor. Gel filling with porous diaphragm. Maintenance-free. Fixed cable 3m. **pH 0...14, temperature 0...60 °C**. Dimensions (L x Ø) mm 120x12	32200153
201 T - ATC pH ELECTRODE - 3 m	Plastic body pH electrode with temperature sensor for general applications. Gel filling with porous separator Maintenance-free. Fixed cable 3 m. **pH 0...14, temperature 0...60 °C**. Dimensions (L x Ø) mm 120x12	50002072
2301 T EC CELL - 3 m	**Conductivity cell C=1** with built-in temperature sensor, epoxy body, cable 3 m. **Working range**: 10µS...200 mS	50004092
DO7 / 3mt OXY SENSOR - 3 m	**Polarographic sensor**, cable 3 m, 2 replacement membranes, refill solution (30ml)	50010242
REDOX REDOX SENSOR - 3 m	Combined Redox electrode with plastic body for general applications. Fixed cable 3 m with BNC connector. Gel filling with porous separator. Maintenance-free. **Working range**: ± 1.000 mV, temperature 0...60 °C	51004132
NT 55 T SENSOR - 3 m	Temperature probe NTC 30 KΩ, cable 3 m, **for liquids and air**	50002082
MEMBRANE	Kit 2 replacement membranes for sensor DO7/3MT	50010252
ELECTROLYTE	Refill solution for sensor DO7/3MT (30ml)	50010262
0% STANDARD	Zero Oxygen standard - **1 bottle**	50010292
0% STANDARD	Zero Oxygen standard - **5 bottles pack**	50010272
POWER SUPPLY	Power supply and cable for XS Revio	50110172
SUPPORT	Magnetic Support for Vio portable instruments	50110252

NEW pH DO NEX

AVAILABLE FROM JUNE

- **Dual channel:** BNC-RCA (pH/mV/ORP/ISE), Multipin (optical DO)
- High-definition backlit **TFT display**
- **pH calibration** up to 5 points - ISE calibration up to 5 points
- **Maintenance-free optical oxygen sensor**
- Automatic **DO calibration** 0%-100%
- Automatic **temperature and pressure compensation**
- **Multiview display** for up to 4 parameters
- Manual and automatic **data logger**, up to 1000 measurements in GLP
- **5 different languages** available
- Sensor ID / User ID / Sample ID - **Password function**

Ergonomic, waterproof professional portable multiparameter with innovative high-resolution backlit TFT display.

Power supply with alkaline batteries (AA) or USB-C. DHS technology.
Dual channel: CH1 for pH/mV/ORP/ISE measurement, multi-pin connection for optical oxygen sensor.
Multiview display option, including temperature.
The online setup and calibration guide allows for simple and immediate use of the device.
Automatic pH calibration with USA, NIST and DIN buffers up to 5 points or 2 user-defined points.
Automatic 1-point ORP calibration.
2 to 5-point ISE calibration.
Indication of calibrated points and pH electrode status.
Automatic DO calibration up to two points (0% - 100%).
Automatic temperature compensation and barometric pressure, manual salinity compensation (0 ... 70 ppt).
Measurement stability indicator; possibility to select 3 stability levels (pH only).
MIN/MAX, HOLD alarm functions.

GLP functions: Date and time, calibration data display and calibration expiry setting with measurement lock.
Possibility to customise the measured data (Sensor ID / User ID / Sample ID).
Passwordfunction.
Five different languages available (ENG - ITA - FRA - DEU - ESP).
Manual and automatic data logger with the option of downloading data to a PC via micro USB-C.

Data Link software can be downloaded free of charge from www.giorgiobormac.com.

Measuring range:
pH: -2,000...20,000 (0,001 pH)
mV: -1999...+1999 (0,1 / 1 mV)
ORP: -1999...+1999 (0,1 / 1 mV)
ISE: 0,001...19999 ppm
DO: 0,0...50 mg/l (0,01 - 0,1 mg/l)
Saturation: 0,0...600 % (0,1 - 1 %)
Barometric pressure: 300...1100 mbar (1 mbar)
Temperature: -10...+110,0 °C

Equipped with:
3 x 1.5 V (AA) alkaline batteries, 3-hole field holder for electrodes, coloured buffer solutions, USB cable for downloading data to a PC, user manual and carrying case.

	Name	Description	Code
NEW	**pHDO NEX** DHS ELECTRODE + DO	With 201 T /3 DHS digital electrode and LDO sensor with 3 m cable	50122712
NEW	**pHDO NEX** ELECTRODE + DO	With 201 T/3 electrode and LDO sensor with 3 m cable	50122732
NEW	**pHDO NEX** WITHOUT SENSORS	Without pH electrode and without LDO sensor, with NT55 temperature sensor, S7-BNC cable and accessories	50122772

NEW pH 2 NEX

AVAILABLE FROM JUNE

- **Dual channel** BNC-RCA
- High-definition backlit **TFT display**
- **pH calibration** up to 5 points - ISE calibration up to 5 points
- **Multiview display** for up to 4 parameters
- Manual and automatic **data logger**, up to 1000 measurements in GLP
- **5 different languages** available
- Sensor ID / User ID / Sample ID - **Password function**

Ergonomic, waterproof professional portable pH meter with innovative high-resolution backlit TFT display.
Power supply by alkaline batteries (AA) or USB-C. DHS technology.
Dual channel:
CH1 for pH/mV/ORP measurement, CH2 customisable (pH/mV/ORP/ISE).
Multiview display option, including temperature.
The online help for setup and calibration allows for simple and immediate use of the device.
Automatic pH calibration with USA, NIST and DIN buffers up to 5 points or 2 user-defined points.
Automatic 1-point ORP calibration. 2 to 5-point ISE calibration.
Indication of calibrated points and pH electrode status.
Measurement stability indicator; possibility to select 3 stability levels. MIN/MAX and HOLD alarm functions.
GLP functions: Date and time, calibration data display and calibration expiry setting with measurement lock.
Possibility to customise measured data (Sensor ID / User ID / Sample ID). Password function.
Five different languages available (ENG - ITA - FRA - DEU - ESP).
Manual and automatic data logger with the option to download data to a PC via micro USB-C.
Data Link software can be downloaded free of charge from www.giorgiobormac.com.

Measuring range:
pH: -2,000...20,000 (0,001 pH)
mV: -1999...+1999 (0,1 - 1 mV)
ORP: -1999...+1999 (0,1 - 1 mV)
ISE: 0,001...19999 ppm
Temperature: -10...+110,0 (0,1 °C)

Equipped with:
3 x 1.5 V (AA) alkaline batteries, coloured buffer solutions, USB cable for downloading data to a PC, user manual and carrying case.

Nome	Descrizione	Codice
NEW **pH 2 NEX** DHS ELECTRODE	Complete with XS 201 T DHS digital electrode, with integrated temperature sensor	50122412
NEW **pH 2 NEX** CLASSIC ELECTRODE	Complete with XS 201T electrode, with integrated temperature sensor	50122422
NEW **pH 2 NEX** WITHOUT ELECTRODE	With accessories, S7-BNC cable and NT 55 temperature probe, without electrode	50122442

NEW PC 70 NEX

- **Resolution** 0.1 / 0.01 / 0.001 pH
- **Resolution** 0.1 µS/cm - 2-ring conductivity cell
- High-definition backlit **TFT display**
- **pH calibration** up to 5 points
- **Conductivity calibration** up to 4 points
- **Multiview display** up to 4 parameters and **simultaneous pH/Cond**
- Manual and automatic **data logger,** up to 1000 measures in GLP
- **5 different languages** available
- Sensor ID / User ID / Sample ID - **Password function**

Professional, ergonomic, waterproof portable multiparameter with innovative high-resolution backlit TFT display.
Power supply with alkaline batteries (AA) or USB-C. DHS technology.
Measures of pH, mV, ORP, conductivity, TDS and salinity with Multiview and simultaneous pH/ conductivity display options.
The online setup and calibration guide allows a simple and intuitive use of the device.
Automatic pH calibration with USA, NIST and DIN buffers up to 5 points or 2 user-defined points.
Automatic ORP calibration at 1-point.
Automatic conductivity calibration up to 4 points or 1 user-defined point.
Adjustable reference temperature (15...30°C) and selectable cell constant (0.1 -1 -10).
Different TDS conversion factors. Indication of calibrated points and pH electrode status.
Measurement stability indicator. Functions MIN/MAX alarms, HOLD.
GLP functions: Date and time, calibration data display and calibration expiry setting with measurement lock.
Possibility to customise measured data (Sensor ID / User ID / Sample ID).
Password function.
Five different languages available (ENG - ITA - FRA - DEU - ESP).
Manual and automatic data logger with the option of downloading data to a PC via micro USB-C.

Data Link software can be downloaded free of charge from www.giorgiobormac.com.

PC 70 NEX kit in case

Measuring range:
pH: -2,000...16,000 (0,001 pH)
mV: -1000...+1900 (0,1 mV / 1 mV)
ORP: -1000...+1900 (0,1 / 1 mV)
Cond: 0,1 µS ...500,0 mS (0,01 µS - automatic)
TDS: 0,1 mg/l ... 200 g/l
Salinity: 0,1 ppm ... 100 ppt
Temperature: -10...110,0 °C (0,1 °C)

Equipped with:
3 x 1.5 V (AA) alkaline batteries, 3-hole field holder for electrodes, coloured buffer solutions, USB cable, user manual and carrying case.

	Name	Description	P/N
NEW	**PC 70 NEX** DHS ELECTRODE + CELL	**With 201 T DHS digital pH electrode and 2301T conductivity cell,** both with built-in temperature sensor and 1 m fxed cable	50122112
NEW	**PC 70 NEX** ELECTRODE + CELL	**With 201 T pH electrode and 2301T conductivity cell,** both with built-in temperature sensor and 1 m fxed cable	50122122
NEW	**PC 70 NEX** CELL ONLY	**Without pH electrode. With 2301 T conductivity cell**, NT55 temperature probe , S7-BNC cable and accessories	50122142
NEW	**PC 70 NEX** WITHOUT SENSORS	Without pH electrode and without conductivity cell, with NT55, S7-BNC cable and accessories	50122152

NEW PC 7 NEX

- **Resolution** 0.1 / 0.01 pH
- **Resolution** 0.1 µS/cm - 2-ring conductivity cell
- High-definition backlit **TFT display**
- **pH calibration** up to 3 points
- **Conductivity calibration** up to 4 points
- **Simultaneous pH/Cond display**
- **Memory,** up to 100 measurements

Professional, ergonomic, waterproof portable multiparameter meter with innovative high resolution backlit TFT display.
Power supply with alkaline batteries (AA) or USB-C. DHS technology.

Measurement of pH, mV, ORP, conductivity, TDS and salinity with simultaneous
pH/conductivity display option.
The online setup and calibration guide allows a simple and intuitive use of the device.
Automatic pH calibration with USA and NIST buffers up to 3 points or 2 user-defined points.
Automatic calibration ORP at 1-point. Automatic conductivity calibration up to 4 points or 1
user-defined point. Adjustable reference temperature (15...30°C) and selectable cell constant
(0.1 -1 -10). Indication of calibrated points and pH electrode status.
Measurement stability indicator.
HOLD function.

Possibility to save up to 100 measurements with recall function.

Measuring range:
pH: 0,00...14,00 (0,01 pH)
mV: -1000...+1000 (1 mV)
ORP: -1000...+1000 (1 mV)
Cond: 0,1 µS ...200 mS (0,01 µS - automatic)
TDS: 0,1 mg/l ... 200 g/l
Salinity: 0,1 ppm ... 100 ppt
Temperature: 0...100,0 °C (0,1 °C)

Equipped with:
3 x 1.5 V alkaline batteries (AA),
3-hole field holder for electrodes, coloured buffer solutions, user manual and carrying case.

	Name	Description	P/N
NEW	**PC 7 NEX** DHS ELECTRODE + CELL	**With 201 T DHS digital pH electrode and 2301T conductivity cell,** both with built-in temperature sensor and 1 m fixed cable	50121812
NEW	**PC 7 NEX** ELECTRODE + EC CELL	**With pH electrode 201 T and conductivity cell 2301T,** both with integrated temperature sensor and cable 1 m	50121822
NEW	**PC 7 NEX** ONLY EC CELL	**Without pH electrode. With conductivity cell 2301 T,** temperature probe NT55 , S7-BNC cable and accessories	50121842
NEW	**PC 7 NEX** WITHOUT SENSORS	Without sensors, with temperature probe NT55 , S7-BNC cable and accessories	50121852

ACCESSORIES PC

PH ELECTRODE

Name	Description	P/N
STANDARD T DHS DIGITAL pH ELECTRODE	**Digital pH electrode combined with DHS technology.** Glass body and cylindrical membrane for general applications. Refillable KCl 3M electrolyte. **Excellent chemical resistance and easy to clean. With serial number and certificate.** Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature -10...100 °C**	32200123
XS STANDARD PH ELECTRODE	pH Electrode combined with S7 head. Glass body, for general use. Refillable KCl 3M Electrolyte. **Excellent chemical resistance and easy to clean.** **With serial number and certificate.** Dimensions (LxØ mm) 120x 12 - **pH 0...14 - Temperature -10...100 °C.**	32200363
XS POLYMER S7	Combined pH Electrode **S7 head**. Glass Body for general use. Cylindrical membrane. Polymer filling, open pore. **For a fast response with high accuracy in samples that might contaminate normal diaphragms**. Maintenance-free. Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature -10...80 °C**	32200223
201 T DHS DIGITAL pH ELECTRODE	**Digital pH electrode combined with DHS technology.** Plastic body for general use. Gel filling, ceramic diaphragm. Maintenance-free. Dimensions (LxØ) mm 120x12. **pH 0...14 - Temperature 0...60 °C**	32200103
201 T PH ELECTRODE	**Combined pH electrode with NTC temperature sensor integrated.** Plastic body for general applications. Gel filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature 0...60 °C**	50002002
201 T / 5 PH ELECTRODE	**Combined pH electrode with NTC temperature sensor integrated.** Plastic body for general applications. Gel filling with ceramic diaphragm. Maintenance-free. Fixed cable 5 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature 0...60 °C**	50002022

CONNECTION CABLE

Connecting cable with **S7 head** and BNC plug for XS meters.
Diameter 3 mm, lenght 1 m.

Name	Description		P/N
BNC	Cable S7-BNC		33551733

CONDUCTIVITY CELLS

Name	Description	P/N
2301 T EC CELL	**Cell in epoxy body C=1, with** integrated temperature sensor. Fixed cable 1 **mt.** BNC+RCA cinch plug. **Measuring range: 10µS...200 mS – Temperature 0...60 °C**	50004002
2301 T / 5 EC CELL	**Cell in epoxy body C=1, with** integrated temperature sensor. Fixed cable **5 mt.** BNC+RCA cinch plug. **Measuring range: 10µS...200 mS – Temperature 0...60 °C**	50004022
VP 1 EC CELL	Cell in **glass body with platinum plates C=1**, fixed cable 1 mt. with BNC plug. **Measuring range: 10µS...10 mS – Temperature 0...80 °C**	50004062
VPT 1 EC CELL	Cell in **glass body with platinum plates C=1**, with integrated temperature sensor. Fixed cable 1 mt., BNC + RCA Cinch plug. **Measuring range: 10µS...100 mS – Temperature 0...80 °C**	50003352
VPT 01 EC CELL	**Steel and PVC cell, C=0,1, with** integrated temperature sensor. Fixed cable 1 mt., BNC + RCA plug. **Measuring range: 0,1µS...1 mS – Temperature 0...60 °C**	50004012
VPT 10 EC CELL	Cell in glass body with platinum plates C=10, integrated temperature sensor, fixed cable 1 mt. BNC + RCA Cinch plug. **Measuring range: 100µS...200 mS**	50004072
VPT 10 H EC CELL	Cell in **glass body with platinum plates C=10**, integrated temperature sensor, fixed cable 1 mt. BNC + RCA Cinch plug. **Measuring range: 100µS...500 mS.** **Only for XS REVIO an XS COND 80 PRO**	50003372

TEMPERATURE PROBES

Name	Description	P/N
NT 55 TEMPERATURE PROBE	Temperature probe NTC 30 KΩ **for liquids and air**	50002012
NT 7P TEMPERATURE PROBE	Temperature probe NTC 30 KΩ **,penetration tip**, diameter 4 mm, fixed cable 1 m	50011122
NT55 + CABLE KIT	Kit Temperature probe NT 55 + cable S7/BNC, 1 m.	50002032

REDOX SENSORS

Name	Description	P/N
REDOX SENSOR	Electrode in epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Cable S7-BNC, 1 m. Dimensions (LxØ) mm 120X12 **Measuring range: ± 1.000 mV, temperature 0...60 °C**	32105302
REDOX / 5 SENSOR	Electrode in epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Cable S7-BNC, 5 m. Dimensions (LxØ) mm 120X12 **Measuring range: ± 1.000 mV, temperature 0...60 °C**	32105102

CALIBRATION KIT - SACHETS BUFFER SOLUTIONS

Name	Description	P/N
SET CAL pH BIS	It contains 10 x pH 4.01 and 10 x pH 7.00, sachets 25 ml each	51102203
SET CAL pH TRIS	It contains 7 x pH 4.01, 7 x pH 7.00, 6 x pH 10.01, sachets 25 ml each	51102213
SET CAL COND	It contains 10 x EC 1.413 µS and 10 x EC 12.880 µS, sachets 25 ml each	51102223
SET CAL PC	It contains 7 x pH 4.01 and 7.00, 6 x EC 1.413 µS, sachets 25 ml each	51102233
REPLACEMENT pH	It contains 6 x pH 4.01, pH 7.00, H2O, and 2 x Storage , sachets 25 ml each	51102243
REPLACEMENT COND	It contains 7 x EC 1.413 µS, EC 12.880 µS and 6 x deionized H2O, sachets 25 ml each	51102253
REPLACEMENT PC	It contains 5 x pH 4.01, pH 7.00 and 1.413 µS, 3 x H2O, sachets 25 ml each and 2 x Storage sachets 25 ml each	51102263
STORAGE	Storage solution for electrodes **55 ml**	32208043
STORAGE	Storage solution for electrodes **500 ml**	32208053

ACCESSORIES

Name	Description	P/N
ECOSTIR MAGNETIC STIRRER	**Magnetic stirrer, adjustable speed,**with magnetic bar and power supply.	22001953
HOLDER MOD: 3900	Flexible electrode holder	50000112
PRINTER	External printer with normal paper for 60 / 8 PRO / 80 PRO Series, power supply and RS 232 cable	50001502
CASE IP67	IP 67 waterproof case for Vio portable instruments	50010972
SOFT CASE	Bag with adjustable shoulder strap in eco-friendly material for Vio portable instruments	50010962
POWER SUPPLY	Power supply and cable for XS NEX	50001622
SUPPORT	Magnetic Support for Vio portable instruments	50110252

NEW Oxy 70 NEX

- High accuracy with **low oxygen level**
- High-definition, backlit **TFT display**
- Automatic **DO calibration** 0%-100%
- Automatic **temperature and pressure compensation**
- **Multiview display** for up to 4 parameters
- Manual and automatic **data logger**, up to 1000 measurements in GLP
- **5 different languages** available
- **Sensor ID / User ID / Sample ID - Password function**
- **Maintenance-free optical sensor**

Ergonomic, waterproof professional portable oximeter with innovative high-resolution backlit TFT display.
Power supply with alkaline batteries (AA) or USB-C.
Measures of dissolved oxygen, % saturation and barometric pressure with Multiview display option including temperature.
The online setup and calibration guide allows a simple and intuitive use of the device.
Automatic DO calibration up to two points (0-100%).
Automatic temperature compensation and barometric pressure, manual salinity compensation (0 ... 70 ppt).
Measurement stability indicator;MIN/MAX and HOLD alarm functions.

GLP functions: Date and time, calibration data display and calibration expiry setting with measurement lock.
Possibility to customise measured data (Sensor ID / User ID / Sample ID).
Password function.

Five different languages available (ENG - ITA - FRA - DEU - ESP).
Manual and automatic data logger with the option of downloading data to a PC via micro USB-C.

Data Link software can be downloaded free of charge from www.giorgiobormac.com.

Measuring range:
DO: 0,0...50 mg/l (0,01 - 0,1 mg/l)
Saturation: 0,0...600 %(0,1 - 1 %)
Barometric pressure: 300...1100 mbar (1 mbar)
Temperature: -10...+110,0 °C

Equipped with:
3 x 1.5 V alkaline batteries (AA), 3-hole electrode field holder 3-hole field holder for electrodes, oxygen standard, USB cable for downloading data to a PC, user manual and carrying case.

Name	Description	P/N
NEW **OXY 70 NEX** 3 m	**Complete with OXY LDO70 optical sensor**, with built-in temperature sensor. Cable lenght: **3 m**	50120912
NEW **OXY 70 NEX** 10 m	**Complete with OXY LDO70 optical sensor**, with built-in temperature sensor. Cable lenght: **10 m**	50120922
LDO70 / 3m SENSOR	Replacement optical sensor for OXY 70, with built-in temperature sensor. 3 metre cable	50010342
LDO70 / 10m SENSOR	Replacement optical sensor for OXY 70, with built-in temperature sensor. 10 metre cable	50010352
MEMBRANE	Replacement **membrane** for LDO70	50010362
ARMOR STEEL	**Steel armor** for LDO70 sensor dripping / 10 mt	50010372

NEW Oxy 7 NEX

- High-definition **TFT display**, backlit
- Automatic **temperature and pressure compensation**
- Automatic **DO calibration** 0%-100%
- Automatic **measurement resolution**
- Automatic **sensor polarisation** timer
- **Polarographic sensor**
- **Memory** for up to 100 measurements

Ergonomic, waterproof professional portable oximeter with innovative high-resolution backlit TFT
display.
Measurement of dissolved oxygen, % saturation and barometric pressure.
The online setup and calibration guide allows a simple and intuitive use of the device.
Automatic DO calibration up to two points (0% - 100%).
Automatic temperature and barometric pressure compensation, manual salinity compensation (0 ... 50
ppt).
Calibrated point indication.
Measurement stability indicator.
Possibility to save up to 100 measurements with recall function.

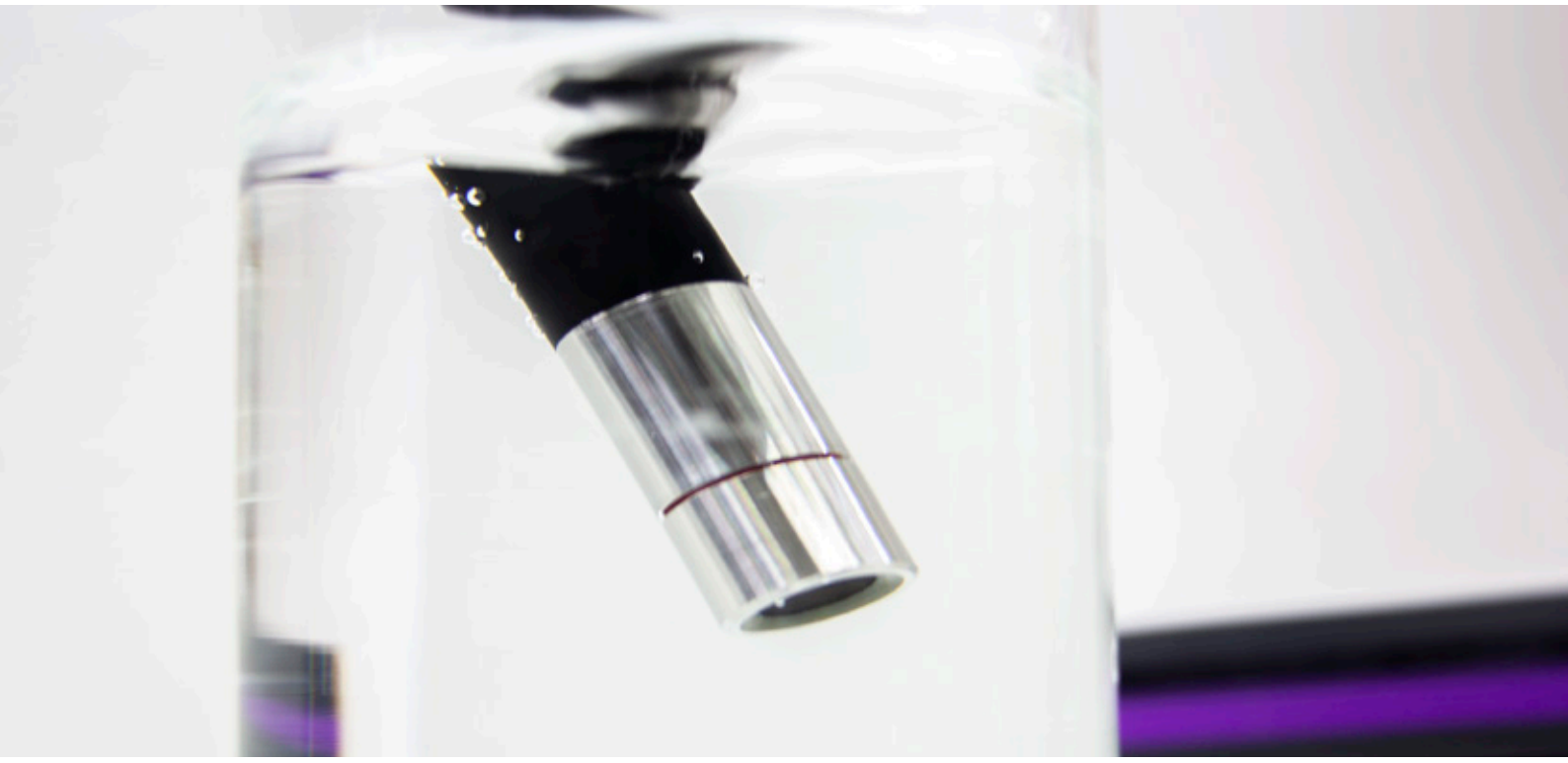
Measuring range:
DO: 0,0...50 mg/l (0,01 - 0,1 mg/l)
Saturation: 0,0...400 % (0,1 - 1 %)
Barometric pressure: 300...1100 mbar (1 mbar)
Temperature: 0...+100,0 °C

Equipped with:
1 replacement membrane, filling solution (30 ml), zero oxygen standard, user manual and carrying case.

Name	Description	P/N
NEW **OXY 7 NEX** COMPLETE	**Complete with DO7/3MT polarographic sensor** with built-in temperature sensor and 3-meters cable, 1 replacement membrane, filling solution (30 ml), zero oxygen standard, user manual and carrying case	50120612
NEW **OXY 7 NEX** ECO	Instrument only **without oxygen sensor,** in Ecopack cardboard box with user manual	50120632
DO7 / 3m SENSOR	**Polarographic sensor replacement** with built-in temperature sensor, 3-metre cable, 2 replacement membranes, filling solution (30 ml)	50010242
MEMBRANE	**Kit of 2 replacement membranes** for OXY DO7/3MT oxygen sensor	50010252
ELECTROLYTE	**Filling solution** for OXY DO7/3MT oxygen sensor (30 ml)	50010262
ARMOR PPE	PPE armour for DO7/3MT sensor dipping (to be ordered with the OXY 7 instrument)	50010282
0% STANDARD	Standard zero oxygen disposable - 1 bottle	50010292
0% STANDARD	Standard zero oxygen Disposable - pack of 5 bottles	50010272

ACCESSORIES

Name	Description		P/N
IP67 CASE	Waterproof carrying case IP 67 for portable meters Vio		50010972
SOFT CASE	Soft case with adjustable shoulder strap in eco-friendly material for portable meters Vio		50010962
POWER SUPPLY	Power supply and cable for XS NEX		50001622
SUPPORT	Magnetical support for VIO portable instruments		50110252



ELECTRODES

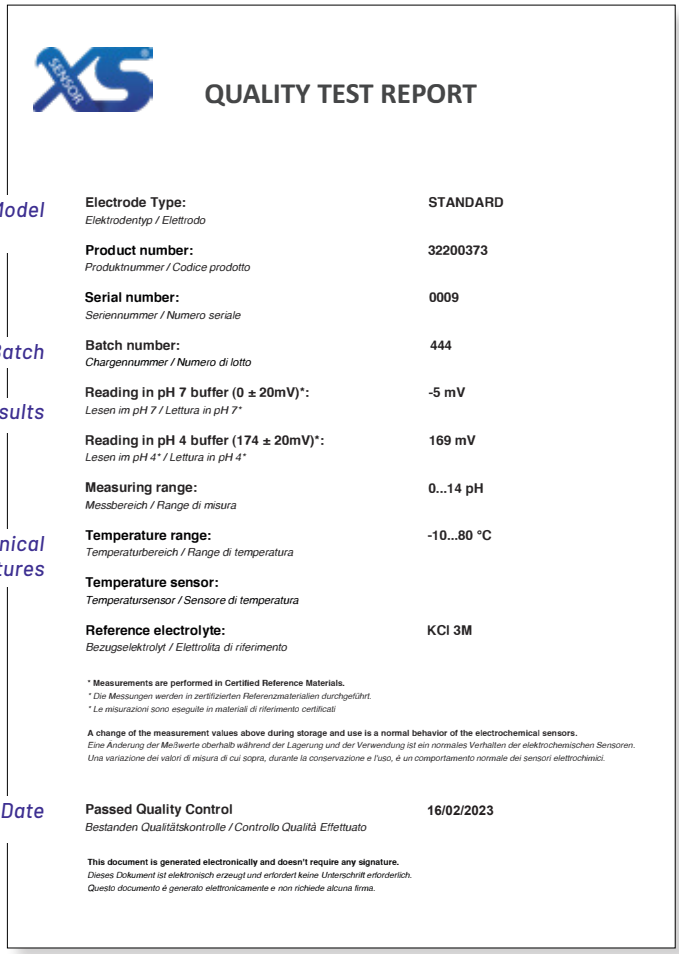
SWISS MADE

WARRANTY 6 MONTHS

DHS
Digital High Sensor

QUALITY CERTIFICATE

The Standard and Flow models in the XS Sensor range are supplied with individual quality certificate, with reference to the electrode
serial number, shown on the internal label for correct traceability, in accordance with GLP standards, of your calibrations and pH measurements.



QUALITY TEST REPORT

Model	**Electrode Type:** *Elektrodentyp / Elettrodo*	**STANDARD**
	Product number: *Produktnummer / Codice prodotto*	**32200373**
	Serial number: *Seriennummer / Numero seriale*	**0009**
Batch	**Batch number:** *Chargennummer / Numero di lotto*	**444**
Test results	**Reading in pH 7 buffer (0 ± 20mV)*:** *Lesen im pH 7 / Lettura in pH 7**	**-5 mV**
	Reading in pH 4 buffer (174 ± 20mV)*: *Lesen im pH 4* / Lettura in pH 4**	**169 mV**
Technical features	**Measuring range:** *Messbereich / Range di misura*	**0...14 pH**
	Temperature range: *Temperaturbereich / Range di temperatura*	**-10...80 °C**
	Temperature sensor: *Temperatursensor / Sensore di temperatura*	
	Reference electrolyte: *Bezugselektrolyt / Elettrolita di riferimento*	**KCl 3M**

*** Measurements are performed in Certified Reference Materials.**
** Die Messungen werden in zertifizierten Referenzmaterialien durchgeführt.*
** Le misurazioni sono eseguite in materiali di riferimento certificati*

A change of the measurement values above during storage and use is a normal behavior of the electrochemical sensors.
Eine Änderung der Meßwerte oberhalb während der Lagerung und der Verwendung ist ein normales Verhalten der elektrochemischen Sensoren.
Una variazione dei valori di misura di cui sopra, durante la conservazione e l'uso, è un comportamento normale dei sensori elettrochimici.

Date	**Passed Quality Control** *Bestanden Qualitätskontrolle / Controllo Qualità Effettuato*	**16/02/2023**

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HOW TO CHOOSE THE RIGHT ELECTRODE

	GEL	POLYMER	POLYMER TIP	STANDARD	201T / POLYMER PLAST	STANDARD HA	FLAT	STANDARD HF	FOOD	2 PORE SLIM	2 PORE	2 PORE F	FOOD SLIM	SEMIMICRO	MICRO	MICRO P	MICRO SPECIAL	FLOW
Waste water		●	●		●	●												●
Deionized water									●									●
Tap water	●	●	●	●	●				●									●
Food									●	●	●	●	●					
Butter									●	●	●	●	●					
Samples with protein		●	●						●		●		●			●		
Alkali samples						●												
High temperature samples				●		●			●									
Samples in tube for NMR																	●	
Small volume samples							●								●	●	●	
Samples with Hydrofluoric acid								●										
Viscous samples		●	●						●									●
Cosmetics		●	●	●		●			●									●
Cream		●	●						●									●
Detergents	●	●	●	●	●	●			●									●
Aqueous ***emulsions***		●	●	●					●									●
Cheese										●	●	●	●					
Fruit and vegetables										●	●	●	●					
Milk		●	●						●	●	●	●	●					
Mayonnaise									●		●							●
Marmalade		●	●						●		●							●
Bread and pasta			●						●	●	●	●	●					
Leather							●											
Brine	●	●	●	●	●				●									●
Soap		●	●	●					●									●
Samples with low ionic strenght																		●
Aqueous suspensions		●	●	●					●									●
Semi Aqueous suspensions									●									●
Fruit juice		●	●	●					●									●
Surfaces							●											
TRIS swab				●														●
Tip			●							●	●	●	●					●
Titolation				●					●									●
Non Aqueous titolation																		●
Galvanic treatment		●	●			●												●
Water-based paints		●	●	●					●									●
Paints				●					●									●
Wine		●	●	●					●									●
Yogurt		●	●						●	●	●	●	●					●

DHS Electrodes Digital High Sensor

Intelligent Sensor management

Digital High Sensors are the new pH sensors with internal chip, that store parameters, date of last calibration, model and production batch of the electrode. After connecting the pH DHS sensor to the instrument, with the same technology, all the data stored in the sensor chip are automatically transferred to the instrument and shown on the display.
After a new calibration of the DHS electrode, the data are automatically stored in the electrode chip. If we move this electrode to another DHS-enabled instrument, we can start working immediately and with extreme security as the data from the last calibration will automatically be transferred and used for pH measurements.
Our DHS electrodes have integrated temperature sensor, fixed cable with BNC and RCA connectors and work without an internal battery, this allows to store them as normal pH electrode and can be connected to any instrument with BNC and RCA connection.

Name	Description	P/N
201 T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. **Plastic body for general use**. Gel Filling, ceramic diaphragm. Maintenance-free. Dimensions (LxØ) mm 120x12. pH 0...14 - Temperature 0...60 °C	32200103

Name	Description	P/N
STANDARD T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. Glass body and cylindrical membrane for general applications. Refillable KCl 3M electrolyte. **Excellent chemical resistance and easy to clean.** Included with serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 0...14 Temperature -10...100 °C	32200123

Name	Description	P/N
FLOW T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. Glass body. Refillable KCl 3M electrolyte. With Teflon sleeve diaphragm **for measurements in suspensions and samples with low conductivity**. With serial number and certificate. Dimensions (LxØ) mm 120x12. pH 0...14 Temperature -10...+80 °C	32200133

Name	Description	P/N
2 PORE T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. Glass Body. Filled with polymer, maintenance-free. **Ideal for meat and cheese samples.** Dimensions tip (LxØ) mm 35x6 - pH 0...14, Temperature 0...60 °C	32200113

Name	Description	P/N
2 PORE F T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. Plastic body (PEEK) and glass membrane. Polymer filling, maintenance-free. **Ideal for meat and cheese samples.** Dimensions tip (LxØ) mm 35x6 - pH 0...14, Temperature 0...60 °C	32200143

Laboratory electrodes

A very famous Swiss manufacturer developed a complete line of laboratory pH, ORP and conductivity electrodes with glass and plastic body. XS Sensors are available with S7 head or fixed cable with BNC or DIN connector plug.
For food applications many models are equipped with temperature sensor included for a fast temperature compensation.
Some models have internal serial number and quality certificate to work in accordance with GLP rules

Name	Description		P/N
STANDARD S7	pH Electrode combined with S7 head. Glass body, for general use. Refillable KCl 3M Electrolyte. **Excellent chemical resistance and easy to clean. With serial number and certificate.** Dimensions (LxØ mm) 120x 12 - pH 0...14 Temperature -10...100 °C.		32200363
STANDARD BNC	With fixed cable 1 mt - **BNC connector.** **With serial number and certificate.**		32200263
STANDARD DIN	With fixed cable 1 mt - **DIN connector.** **With serial number and certificate.**		32200273
STANDARD T BNC + RCA	With temperature sensor NTC 30 KΩ, fixed cable **BNC+RCA Cinch**		32200473
STANDARD T DIN + BANANA	With temperature sensor NTC 30 KΩ, fixed cable **DIN+banana 4 mm**		32200463
G 214 T BNC + BANANA	With temperature probe PT 1000, fixed cable **BNC+banana 4 mm** **Without serial number and certificate.**		32200813

Name	Description	P/N
STANDARD HA S7	pH electrode combined for **minimal alkaline error**, S7 head. Glass body and cylindrical membrane. Refillable KCl 3M electrolyte. **Excellent chemical resistance and easy to clean.** **With serial number and certificate.** Dimensions (LxØ mm) 120x 12 - pH 0...14 Temperature -10...100 °C.	32200423

Name	Description	P/N
STANDARD HF S7	Combined pH electrode, S7 head. Glass body. With special membrane **for measurements in samples containing hydrofluoric acid** (0.01 M / 200 mg/l at 20 °C). Refillable KCl 3M electrolyte. Excellent chemical resistance and easy to clean. Dimensions (LxØ mm) 120x 12 - pH 0...14 Temperature -10...100 °C.	32200433

Name	Description	P/N
GEL S7	Combined pH electrode, S7 head. Glass body for general applications. Cylindrical membrane. Gel filled, maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 Temperature -10...60 °C	32200203

Name	Description	P/N
POLYMER S7	Combined pH Electrode S7 head. Glass Body for general use. Cylindrical membrane. Polymer filled, open pore. **For a fast response with high accuracy in samples that might contaminate normal diaphragms**. Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...80 °C	32200223
POLYMER T BNC + RCA	With NTC temperature sensor, 1 m fixed cable, BNC+RCA plug	32200833

Name	Description	P/N
POLYMER TIP S7	Combined pH electrode with tipped membrane for pH in the soil. S7 head. Glass body. Polymer filled, two open pores. **For a fast response with high accuracy in samples may contaminate normal diaphragms**. Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...80 °C	32200443

Name	Description		P/N
FLOW S7	Combined pH electrode, S7 screw head. Glass body. Refillable KCl 3M electrolyte. With collar diaphragm **for measurements in viscous samples with low conductivity.** With serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...80 °C		32200373
FLOW T BNC	With **integrated temperature sensor NTC 30 KΩ** fixed cable 1 mt lenght BNC+RCA Cinch **With serial number and certificate**		32200723
FLOW T DIN	With **integrated temperature sensor PT 1000** fixed cable 1 mt lenght DIN+banana 4 mm **With serial number and certificate**		32200733
G 221 T BNC + BANANA	With **integrated temperature sensor PT 1000** fixed cable 1 mt lenght BNC+banana 4 mm **With serial number and certificate.**		32200863

Name	Description	P/N
FLAT S7	Combined pH electrode, S7 head. Glass Body. Polymer filled. **With flat membrane for surface measurements.** Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C	32200413

Name	Description	P/N
SEMI MICRO S7	Combined pH electrode, S7 head. Glass body "micro 6". Refillable KCl 3M electrolyte. **Suitable for measurements in test tubes.** Dimensions (LxØ) mm 100 x 6 - pH 0...14 - Temperature 0...100 °C	32200383

Name	Description	P/N
MICRO S7	Combined pH electrode, S7 head. Glass body "micro 3". Refillable KCl 3M electrolyte. **For small volume of samples <2 ml.** Dimensions (LxØ) mm 60 x 3 - pH 0...14 - Temperature 0...100 °C	32200213

Name	Description	P/N
MICRO P S7	Combined pH electrode, S7 head. Glass body "micro 3". Refillable Glycerin KCl electrolyte **Suitable for small volumes in microbiological and biochemical applications** Dimensions (LxØ) mm 60 x 3 - pH 0...14 - Temperature 0...100 °C	32200253

Name	Description	P/N
MICRO SPECIAL S7	Combined pH electrode, S7 head, Glass body "micro 3". Refillable KCl 3M electrolyte. **For small volume of samples <2 ml. Ideal for NMR tubes measurements** Dimensions (LxØ) mm 180x3 - pH 0...14 - Temperature 0...100 °C	32200453

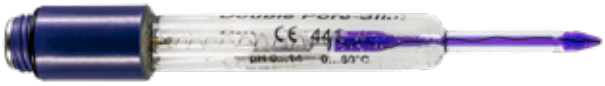
Electrodes for food applications

Name	Description	p/n
FOOD S7	Combined pH electrode with 3 diaphragm, S7 head. Glass body. Refillable Glycerin KCl electrolyte. **For dairy and food applications.** Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...100 °C	32200393
FOOD T BNC + RCA	With **NTC temperature sensor**, 1 m fixed cable, **BNC+RCA** plug	32200753

Name	Description	p/n
FOOD SLIM S7	Combined pH electrode,S7 head. Glass body. Refillable Glycerin KCl for sample containing proteins. **6 mm tip for penetration measurements.** Dimensions tip (LxØ) mm 25x6 - pH 0...14 - Temperature -10...100 °C	32200243

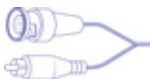
Name	Description	p/n
ZETATRODE S7	Combined pH electrode, S7 head. Glass body. Refillable Glycerin KCl for sample containing proteins. **4 mm tip for penetration measurements.** Dimensions (LxØ) mm 120x4 - pH 0...14 - Temperature 0...60 °C	32200403

Name	Description	p/n
2 PORE S7	Combined pH electrode, S7 head. Glass body. Polymer filling, two open pores, maintenance free. **Ideal for meat and cheese applications, 6 mm tip for penetration measurements** Dimensions (LxØ) mm 35x6 - pH 0...14 - Temperature 0...60 °C	32200333
2 PORE T BNC + RCA	With integrated temperature sensor NTC 30 KΩ, fixed cable 1 mt length, BNC+RCA Cinch	32200323



Name	Description	p/n
2 PORE SLIM S7	Combined pH electrode, S7 head. Glass body. Polymer filling. Two open pores, maintenance-free. **Ideal for meat and cheese applications, 4,5 mm tip for penetration measurements** Dimensions (LxØ) mm 35x4,5 - pH 0...14 - Temperature 0...60 °C	32200283

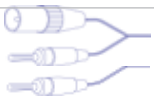
Name	Description	p/n
2 PORE F S7	Combined pH electrode, S7 head. Plastic body (PEEK) and glass tip. Polymer filling, two open pores, maintenance-free. **Ideal for meat and cheese applications. 6 mm tip for penetration measurements** Dimensions (LxØ) mm 35x6 - pH 0...14 - Temperature 0...60 °C	32200293
2 PORE F T BNC + RCA	With integrated temperature sensor NTC 30 KΩ fixed cable 1 mt., BNC+RCA.	32200703
2 PORE F T DIN + BANANA	With temperature sensor PT1000, fixed cable 1 mt., plug DIN + banana 4 mm **For Knick and WTW instruments.**	32200713
G 216 T BNC + BANANA	With temperature sensor PT1000, fixed cable 1 mt., plug BNC + banana 4 mm	32200823

Name	Description	p/n
2 PORE STEEL S7	Combined pH electrode, steel body. Polymer filled, maintenance-free. **Ideal for meat application, 6 mm tip for penetration measurements** Dimensions (LxØ) mm 50x6 - pH 0...14 - Temperature 0...80 °C	32200653
2 PORE STEEL T BNC + RCA	**With integrated temperature sensor NTC 30 KΩ**, fixed cable 1 mt., BNC + RCA cinch plug. 	32200313
2 PORE STEEL T DIN + BANANA	With temperature sensor NTC 30 KΩ, fixed cable 1 mt., plug DIN + Banana 4mm.	32200643

Name	Description	p/n
2 PORE K S7	Combined pH electrode, S7 head. Steel body with replaceable blade. Polymer filling, two open pores, maintenance-free. **Ideal for meat application or penetration measurements.** Dimensions (LxØ) mm 35x6 - pH 0...14 - Temperature 0...60 °C	32200303
2 PORE K WITHOUT BLADE	Only electrode, without knife.	32200343
2 PORE K T WITH BLADE	With NTC temperature sensor,+ 1 m fixed cable, BNC+RCA plug. With blade.	32200843
2 PORE K T WITHOUT BLADE	With NTC temperature sensor,+ 1 m fixed cable, BNC+RCA plug. Without blade.	32200853
BLADE	Replaceable knife for 2 Pore K	32200353

Plastic electrodes for general use

Name	Description	p/n
POLYMER PLAST S7	Combined pH electrode, S7 head, with epoxy body. Good chemical resistant. Polymer filling, one open pore and one ceramic diaphragm, **for a fast response in samples that contain substances that might contaminate the diaphragm.** Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C	32200493
POLYMER PLAST BNC	With fixed cable 1 mt., BNC plug	32200503
POLYMER PLAST DIN	With fixed cable 1 mt., DIN plug	32200513

Name	Description	p/n
201 T BNC	Combined pH electrode with NTC integrated temperature sensor. **Epoxy body for general applications.** Gel filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C	50002002
201 T /3 BNC	201 T with cable 3 mt long	50002072
201 T /5 BNC	201 T with cable 5 mt long	50002022
201 T DIN	With integrated temperature sensor NTC 30 KΩ, fixed cable 1 mt., DIN+ 1 Banana 4mm plug	50002052
201 T DIN + 2 BANANA	With integrated temperature sensor NTC 30 KΩ, fixed cable 1 mt., DIN+ 2 Banana 4mm plug 	50002042
G 210 BNC + BANANA	With integrated temperature sensor PT 1000, fixed cable 1 mt. BNC + 1 Banana 4mm plug	32200803

Cleaning and maintenance solutions

Name	Volume	p/n
KCL 3M + AgCl Solution	55 ml	32208113
3M KCL Solution	55 ml	32208003
3M KCL Solution	500 ml	32208013
GLYCERIN-KCl Solution	55 ml	32208023
KNO3 1M FOR ELECTRODE XS STANDARD Ag Solution	55 ml	32208033
ELECTRODES STORAGE Solution	55 ml	32208043
ELECTRODES STORAGE Solution	500 ml	32208053
PROTEIN CLEANING SOLUTION (PEPSIN) FOR FOOD INDUSTRY ELECTRODES	55 ml	32208063
PROTEIN CLEANING SOLUTION (PEPSIN) FOR FOOD INDUSTRY ELECTRODES	250 ml	32208093
DIAPHRAGM CLEANING (THIOUREA) Solution	55 ml	32208073
DIAPHRAGM CLEANING (THIOUREA) Solution	250 ml	32208103
REGENERATION SOLUTION (WITH HF) FOR pH ELECTRODES	55 ml	32208083

ORP Electrodes

Name	Description	P/N
STANDARD ORP S7	Combined pH electrode, S7 head. Glass body. Refillable KCL 3M Electrolyte. **Platinum ring** for ORP measurements. Dimensions (LxØ) mm 120x12 - Temperature -10...100 °C	32200233

Name	Description	P/N
STANDARD AG S7	Combined electrode, S7 head. Glass body. Refillable KNO3 1M Electrolyte. **Silver pin for argentometric titrations.** Dimensions (LxØ) mm 120X12- Temperature 0...80 °C	32200483

Name	Description	P/N
FLOW AG S7	Collar diaphragm, S7 head with silver tip for argentometric applications. Dimensions (LxØ) mm 120X12- **Temperature 0...80 °C - mV +/- 2000 mV**	32200543

Name	Description	P/N
STANDARD KF S7	Glass Body, S7 head. Maintenance-free. **Double platinum pins for KF and SO2 titrations** Dimensions (LxØ) mm 120X12 – Temperature 0...80 °C	32200523

Name	Description	P/N
PLAST ORP S7	S7 head, epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Dimensions (LxØ) mm 120X12 - Temperature 0...60 °C	32200663
PLAST ORP BNC	With fixed cable 1mt., BNC Plug	32200673

Process electrodes

Name	Description	p/n
BASIC PRO S7 - PG 13,5	Combined pH electrode, S7 head. Lenght 120 mm. Glass body, ceramic diaphragm. **Gel filling**, maintenance-free. **Withstands pressure of 2 bar - pH 0...14 - Temperature 0...60 °C**	32201021

Name	Description	p/n
PLASTIC PRO S7 - PG 13,5	Combined pH electrode, S7 head, with epoxy body. Lenght 120 mm. Good chemical resistant. **Polymer filling**, open pore. Maintenance-free. **Withstands pressure of 6 bar - pH 0...14 - Temperature -10...60 °C**	32201101

Name	Description	p/n
POLYMER PRO S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. **Polymer filling with barrier, open pore**. Maintenance-free. **Withstands pressure of 6 bar - pH 0...14 - Temperature -10...60 °C**	32201111

Name	Description	p/n
POLYMER HA PRO S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. **Polymer filling, open pore**. Maintenance-free. **Sterilizable.** **Special membrane with low alkaline error and resistant to the metals present in the sample.** **Withstands pressure of 6 bar - pH 0...14 - Temperature -10...130 °C**	32201061

Name	Description	p/n
POLYMER HF PRO S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. **Polymer filling, open pore**. Maintenance-free. **Special membrane HF resistant** (0,01M 200mg at 20°C and 0,05M 1000mg at 50°C). **Withstands pressure of 6 bar - pH 0...14 - Temperature 0...100 °C**	32201071

Name	Description	p/n
PURE PRO S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. **Refillable KCl 3M electrolyte**. Designed **for low conductivity samples (<0,2 µS)** **pH 0...14 - Temperature 0...40 °C**	32201081

Name	Description	p/n
PURE PRO GEL S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. **Gel Filling,** maintenance-free. Designed **for low conductivity samples (<1 µS)** **pH 0...14 - Temperature 0...60 °C. With serial number and certificate**	32201171

Name	Description	p/n
GEL HT PRO S7 - PG 13,5	Combined pH electrode, S7 head. Lenght 120 mm. Glass body with **3 ceramic diaphragms**. **Gel Filling,** maintenance-free. **Withstands pressure of 16 bar - pH 0...14 - Temperature 0...130 °C. With serial number and certificate**	32201001
GEL HT PRO 225 S7 - PG 13,5	Lenght 225 mm	32201041

Name	Description	p/n
POLYMER HT PRO S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. **Polymer filling, open pore.** Maintenance-free. **Withstands pressure of 6 bar - pH 0...14 - Temperature 0...130 °C. With serial number and certificate**	32201011
POLYMER HT PRO 225 S7 - PG 13,5	Lenght 225 mm	32201051

Name	Description	p/n
POLYMER PLUS PRO S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. **Special polymer filling and encapsulated reference system.** Maintenance-free. Open pore. **Withstands pressure of 6 bar - pH 0...14 - Temperature 0...130 °C. With serial number and certificate**	32201121
POLYMER PLUS PRO 225 S7 - PG 13,5	Lenght 225 mm	32201211

Name	Description	p/n
GEL BIOTECH S7 - PG 13,5	Combined pH electrode, glass body with **1 ceramic diaphragm**. Length 120 mm. Maintenance-free, gel filling, **pressurized for biotechnology and fermenters, prevents internal contamination by the sample. For SIP and CIP cycles.** **Withstands pressure of 6 bar - pH 0... 14 - Temperature 0... 130 ° C. With serial number and certificate**	32201241
GEL BIOTECH 225 S7 - PG 13,5	Lenght 225 mm	32201251

VP head electrodes

Name	Description	p/n
POLYMER PLUS VP 120 VP HEAD - PT1000	Combined pH electrode, **VP Multipin screw head**. Glass body. Length 120 mm. **Special polymer filling and encapsulated reference system,** maintenance-free. Open pore. **Complete with PT1000 sensor.** **Withstands pressure of 6 bar - pH 0... 14 - Temperature 0... 130 ° C.** **With serial number and certificate**	32201351
POLYMER PLUS VP 225 VP HEAD - PT1000	**Lenght 225mm.** With PT1000 sensor.	32201361
POLYMER PLUS VP 120 VP HEAD - PT100	Length 120 mm. **With PT100 sensor.**	32201401

Name	Description	p/n
POLYMER HT VP 120 VP	Combined pH electrode, **VP Multipin screw head**. Glass body. Length 120 mm. **Polymer filling,** maintenance-free. Open pore. **Complete with PT100 sensor.** **Withstands pressure of 6 bar - pH 0... 14 - Temperature 0... 130 ° C.** **With serial number and certificate**	32201301
POLYMER HT VP 225 VP	Lenght 225mm	32201311

Cleaning, maintenance and electrolyte solutions

Name	Volume	p/n
KCL 3M + AgCl Solution	55 ml	32208113
3M KCL Solution	55 ml	32208003
3M KCL Solution	500 ml	32208013
GLYCERIN-KCl Solution	55 ml	32208023
KNO3 1M FOR ELECTRODE XS STANDARD Ag Solution	55 ml	32208033
ELECTRODES STORAGE Solution	55 ml	32208043
ELECTRODES STORAGE Solution	500 ml	32208053
PROTEIN CLEANING SOLUTION (PEPSIN) FOR FOOD INDUSTRY ELECTRODES	55 ml	32208063
PROTEIN CLEANING SOLUTION (PEPSIN) FOR FOOD INDUSTRY ELECTRODES	250 ml	32208093
DIAPHRAGM CLEANING (THIOUREA) Solution	55 ml	32208073
DIAPHRAGM CLEANING (THIOUREA) Solution	250 ml	32208103
REGENERATION SOLUTION (WITH HF) FOR pH ELECTRODES	55 ml	32208083

Redox process electrodes

Name	Description	p/n
BASIC ORP PLATINUM S7 - PG 13,5	Glass electrode for **ORP measurements with gel filling**. S7 screw head. Length 120 mm. **Withstands pressure of 2 bar - Temperature 0... 60 ° C**	32201031

Name	Description	p/n
PLASTIC PRO ORP S7 - PG 13,5	**Unbreakable epoxy body**, S7 screw head. Length 120 mm. Polymer filling, ceramic diaphragm + open pore. Maintenance-free **Withstands pressure of 6 bar - Temperature -10... 60 ° C**	32201141

Name	Description	p/n
POLYMER ORP S7 - PG 13,5	Glass body. S7 screw head. Length 120 mm. **Polymer filling. Open pore.** Maintenance-free. **Withstands pressure of 6 bar - Temperature -10... 60 ° C**	32201131

Name	Description	p/n
GEL HT ORP S7 - PG 13,5	S7 screw head. Length 120 mm. Glass body with **3 ceramic diaphragms.** Maintenance-free, gel filling. **Withstands pressure of 16 bar - Temperature 0... 130 ° C. With serial number and certificate**	32201091

Process conductivity probe

Name	Description	p/n
SPT1	Conductivity cell in graphite C = 1 with **Pt 100 and 8 m cable.** **Range 0 mS... 10 mS - Temperature 0 ... 60 ° C**	32390001

Laboratory Conductivity probes

Name	Description	P/N
VP 1	**Platinum glass cell C = 1,** fixed cable 1 m with BNC. **Range 10µS... 100 mS**	50004062
VPT 1	**Platinum glass cell C = 1,** with temperature sensor NTC 30KΩ	50003352
EPT 1	**Epoxy body cell C = 1,** with temperature sensor NTC 30KΩ	50003382

Name	Description	P/N
VPT 01	**Steel/PVC cell C = 0.1,** with integrated temperature sensor. Fixed cable 1 m BNC-Cinch. **Range 0.1µS... 1 mS**	50004012

Name	Description	P/N
VPT 10	**Platinum glass cell C = 10,** with integrated temperature sensor, fixed cable 1 m BNC-Cinch. **Range 100µS... 200 mS**	50004072

Name	Description	P/N
VPT 10 H	**Platinum glass cell C = 10,** with integrated temperature sensor, fixed cable 1 m BNC-Cinch. **Range 100µS... 500 mS.**	50003372

Name	Description	P/N
2301 T	**Epoxy cell C = 1** with integrated temperature sensor, fixed cable 1 m. **Working range 10µS... 200 mS**	50004002
2301 T / 3	Fixed cable **3 m**	50004092
2301 T / 5	Fixed cable **5 m**	50004022

Name	Description	P/N
EPT 4 FULL RANGE	PVC-Graphite cell 4 rings C=0,5, 1m cable, integrated temperature sensor. Multipin connector. **Measuring range 0,01 µS...1 S. Compatible with PC-Cond 80 Pro**	50003362

Name	Description	P/N
VPT SOIL SENSORE	PVC-Graphite cell 4 rings C=0,5, 1m cable, integrated temperature sensor. Multipin connector. **Measuring range 0,01 µS...1 S. Compatible with PC-Cond 80 Pro**	50004082

Cables and accessories

LABORATORY

Cables are provided with S7 head to screw at the electrodes head.
The plug choice is related to the instrument used. Diameter 3 mm, lenght 1 m.

Name	Description	p/n
BNC	Cable S7-BNC	33551733
DIN	Cable S7-DIN	33551743

PROCESS

Connecting cable for process electrodes. **Diameter 5 mm.**
Plug and lenght of the cable must be chosen based on the application.

Name	Description	p/n
CABLE 5 MM	Coaxial cable with antistatic sheath for electrodes, diameter 5mm	33550533
S7 HEAD	Only S7 head for 5mm cable	33412913
BNC	Only BNC plug for 5 mm cable	33412923
DIN	Only DIN plug for 5 mm cable	33550903

	Lenght	p/n
PRE - ASSEMBLED CABLE WITH **S7 HEAD - OPEN WIRES**	3 m	33550733
	5 m	33550663
	10 m	33550803
	20m	33550763
PRE- ASSEMBLED CABLE WITH **S7 HEAD - BNC PLUG**	1 m	33550673
	3 m	33550743
	5 m	33550563
	10 m	33550753
	20 m	33550773
PRE- ASSEMBLED CABLE WITH **VP 6** FOR ELECTRODE WITH **PT100 - PT1000**	3 m	33551091
	5 m	33551101
	10 m	33551111

GIORGIOBORMAC

BUFFER SOLUTIONS

XS GREEN LINE SOLUTIONS

CALIBRATION AND QUALITY

pH and conductivity measurements and redox potential are routine operations in most laboratories and processes. Reliability and accuracy of measurements are essential for the quality control.
The XS Green Line Solutions range suits your needs and guarantees an impeccable calibration.

XS PROFESSIONAL

ASSURANCE AND ACCREDITATION

The more accurate the pH and conductivity measurements are, the more reliable the calibration solutions are. XS Professional solutions are a guarantee of metrological traceability of your measurement chain and are ideal for regulated areas. Traceability is ensured by the certifications of accredited external calibration laboratories UNI CEI EN ISO/IEC 17025. pH buffer solutions are DKD-DAkkS certified by calibration at the ZMK Zentrum für Messen und Kalibrieren. Conductivity standards are DANAK certified by calibration at the DFM Danish Institute of Fundamental Metrology.

XS BASIC

TRACEABILITY AND RELIABILITY

XS standard solutions are traceable to the IUPAC pH scale, using an unbroken chain of comparisons directly to NIST Standard Reference materials.
Each solution is provided with the Certificate of Analysis of the GIORGIO BORMAC internal Laboratory, which guarantees quality, traceability and accuracy. XS Basic solutions are your perfect partner to verify your sensors and measurement systems every day.

XS PROFESSIONAL pH

All solutions are ISO 9001 - DAkkS/DKD certified.
The Certificate is downloadable on our website: www.xsinstruments.com using the filling wo number

BOTTLE 250 ml

Name	Description	p/n
pH 4.01	±0,02 / 25°C - Red	51300003
pH 7.00	±0,02 / 25°C - Green	51300013
pH 9.21	±0,02 / 25°C - Blue	51300023
pH 10.01	±0,02/ 25°C - Yellow	51300033

BOTTLE 500 ml

Name	Description	p/n
pH 4.01	±0,02 / 25°C - Red	51300103
pH 7.00	±0,02 / 25°C - Green	51300113
pH 9.21	±0,02 / 25°C - Blue	51300123
pH 10.01	±0,02/ 25°C - Yellow	51300133

XS PROFESSIONAL COND

With DFM and N.I.S.T traceability,
The Certificate is downloadable on our website: www.xsinstruments.com using the filling wo number

BOTTLE 280 ml Glass

Name	Description	p/n
1,3 µS/cm (25°C)	DFM. Accuracy ±0,1µS	51300303
5,0 µS/cm (25°C)	DFM. Accuracy ±0,1µS	51300313

BOTTLE 500 ml with built-in calibration compartment

Name	Description	p/n
84 µS/cm (25°C)	DFM. Accuracy ±1%	51300323
147 µS/cm (25°C)	DFM. Accuracy ±1%	51300333
1413 µS/cm (25°C)	1278 µS/cm (20°C) - DFM. Accuracy ±1%	51300343
12.880 µS/cm (25°C)	11670 µS/cm (20°C) - DFM. Accuracy ±1%	51300353

XS BASIC

BUFFER SOLUTIONS IN SACHETS

WITH N.I.S.T. TRACEABILITY.

SINGLE BUFFER

Name	Description	p/n
pH 4.01 (25°C)	Pack of 20 sachets 25 ml, red, with certificate of analysis	51102013
pH 7.00 (25°C)	Pack of 20 sachets 25 ml, green, with certificate of analysis	51102023
pH 10.01 (25°C)	Pack of 20 sachets 25 ml, with certificate of analysis	51102043
EC 84 µS/cm (25°C)	Pack of 20 sachets 25 ml, with certificate of analysis	51102073
EC 1413 µS/cm (25°C)	Pack of 20 sachets 25 ml, with certificate of analysis	51102053
EC 12880 µS/cm (25°C)	Pack of 20 sachets 25 ml, with certificate of analysis	51102063
STORAGE	Pack of 20 sachets 10 ml, pH/ORP Sensor Storage Solution	51102083
H2O	Pack of 20 sachets 25ml, Distilled water for sensor cleaning	51102093

CALIBRATION SET

Name	Description	p/n
SET CAL pH BIS	Pack of 20 sachets 25ml (10 x pH 4.01 and 10 x pH 7.00)	51102203
SET CAL pH BIS	Pack of 20 sachets 25ml (7 x pH 4.01, 7 x pH 7.00 and 6 x pH 10.01)	51102213
SET CAL COND	Pack of 20 sachets 25ml (10 x EC 1.413 µS and 10 x EC 12.880 µS)	51102223
SET CAL PC	Pack of 20 sachets 25ml (7 x pH 4.01, 7 x pH 7.00 and 6 x EC 1.413 µS)	51102233
REPLACEMENT pH	Pack of 20 sachets 25ml (6 x pH 4.01, 6 x pH 7.00, 6 x H2O distilled water and 2x Storage 10 ml)	51102243
REPLACEMENT COND	Pack of 20 sachets 25ml (7 x EC 1.413 µS, 7 x EC 12.880 and 6 x H2O distilled water)	51102253
REPLACEMENT PC	Pack of 20 sachets 25ml (5 x pH 4.01, 5 x pH 7.00, 5 x 1.413 µS, 3 x H2O distilled water and 2 x Storage 10 ml)	51102263
REPLACEMENT pH - H_2O	Pack of 20 sachets 25ml(6 x pH 4,01, pH 7,00, pH 10,01 and 2 x H2O)	51102283

SINGLE USE BOTTLE 55 ml

Name	Description	p/n
pH 4,01	±0,02 / 25°C - Red	32383123
pH 7,00	±0,02 / 25°C- Green	32383133
pH 9,00	±0,02 / 25°C- Blue	32383143
pH 10,01	±0,02 / 25°C- Uncoloured	32382903
468 mV	± 5mV / 25°C- Yellow	32383163
475 mV	± 5mV / 25°C- Yellow	32383153
EC 84 µS/cm	± 1% / 25°C - Uncoloured	60000613
EC 1413 µS/cm	± 1% / 25°C - Uncoloured	60000423
EC 12880 µS/cm	± 1% / 25°C - Uncoloured	60000433

pH BUFFERS

With N.I.S.T traceability.
The Certificate is downloadable on our website: www.xsinstruments.com using the filling lot number

BOTTLE 250 ml with built-in calibration compartment

Name	Description	p/n
pH 4,01	±0,02 / 25°C - Red	51100033
pH 7,00	±0,02 / 25°C - Green	51100043
pH 9,00	±0,02 / 25°C - Blue	51100053
pH 9,21	±0,02 / 25°C - Blue	51100073
pH 10,01	±0,02 / 25°C - Uncoloured	51100063

BOTTLE 500 ml with built-in calibration compartment

Name	Description	p/n
pH 4,01	±0,02 / 25°C - Red	51100133
pH 7,00	±0,02 / 25°C - Green	51100143
pH 9,00	±0,02 / 25°C - Blue	51100153
pH 9,21	±0,02 / 25°C - Blue	51100173
pH 10,01	±0,02 / 25°C - Uncoloured	51100163

500 ml bottle

250 ml bottle

Politainer 5 l

POLITAINER 5000 ml (5 L)

Name	Description	p/n
pH 4,01	±0,02 / 25°C - Red	51100233
pH 7,00	±0,02 / 25°C - Green	51100243
pH 9,00	±0,02 / 25°C - Blue	51100253
pH 9,21	±0,02 / 25°C - Blue	51100273
pH 10,01	±0,02 / 25°C - Uncoloured	51100263

CONDUCTIVITY STANDARD

With N.I.S.T traceability and certificate downloadable from our website: www.xsinstruments.com using the lot number

BOTTLE 280 ml glass

Name	Description	p/n
1,3 µS/cm (25°C)	N.I.S.T. Accuracy ±0,1µS	51100503
5,0 µS/cm (25°C)	N.I.S.T. Accuracy ±0,1µS	51100513

BOTTLE 500 ml with built-in calibration compartment

Name	Description	p/n
84 µS/cm (25°C)	N.I.S.T. Accuracy ±1%	51100613
147 µS/cm (25°C)	N.I.S.T Accuracy ±1%	51100623
1413 µS/cm (25°C)	1278 µS/cm (20°C) - N.I.S.T. Accuracy ±1%	51100633
12.880 µS/cm (25°C)	11670 µS/cm (20°C) - N.I.S.T. Accuracy ±1%	51100643

REDOX / ORP STANDARD

Name	Description	p/n
200 mV (25°C)	± 5mV Bottle **250 ml**	51100303
468 mV (25°C)	± 5mV Bottle **55 ml**	32383163
475 mV (25°C)	± 5mV Bottle **250 ml**	51100313
475 mV (25°C)	± 5mV Bottle **500 ml**	51100323
650 mV (25°C)	± 5mV Politainer **5 l**	51100333

CLEANING AND MAINTENANCE SOLUTIONS

Name	Pack	p/n
Solution 3M KCL + AgCl	55 ml	32208113
Solution 3M KCL	55 ml	32208003
Solution 3M KCL	500 ml	32208013
Solution GLYCERIN-KCl	55 ml	32208023
Solution KNO3 1M for Electrode STANDARD Ag	55 ml	32208033
Solution STORAGE for Electrodes	55 ml	32208043
Solution STORAGE for Electrodes	500 ml	32208053
Solution PROTEINS CLEANING (PEPSIN) for FOOD application Electrodes	55 ml	32208063
Solution PROTEINS CLEANING (PEPSIN) for FOOD application Electrodes	250 ml	32208093
Solution DIAPHRAGM CLEANING (THIOUREA)	55 ml	32208073
Solution DIAPHRAGM CLEANING (THIOUREA)	250 ml	32208103
Solution REGENERATION (with HF) for pH Electrodes	55 ml	32208083

Brochures ***XS Buffer solutions*** is available on our website www.xsinstruments.com

TESTER

SENSOR WARRANTY 6 MONTHS

ELECTRONIC PART WARRANTY 1 YEAR

IP67 WATERPROOF

MADE IN ITALY

APPLICATIONS:

- FARMING
- WATER AND WASTEWATER TREATMENT
- HYDROPONIC CROPS AND AQUARIUMS
- ENVIRONMENTAL MONITORING
- POOLS AND THERMAL CENTERS
- FOOD AND BEVERAGE
- COOLING TOWER
- GALVANIC
- GRAPHIC INDUSTRY
- SCHOOLS

SELECTION GUIDE

	PX4	pH5	pH5FOOD	COND 5	ORP 5	PC 5	PC 6
pH	●	●	●	○	○	●	●
Redox	●	○	○	○	●	○	●
Conductivity	○	○	○	●	○	●	●
TDS	○	○	○	●	○	●	●
Salinity	○	○	○	●	○	●	●
Temperature	●	●	●	●	●	●	●
pH measuring range	-2 ... 16	-2 ... 16	-2 ... 16	-		-2...16	-2...16
Resolution	0.01	0.01	0.01	-		0.01	0.01
Calibration points	1...3	1...3	1...3	-	-	1...3	1...3
Stability indications	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mV (pH) measuring range	-1000...+1000 mv	-1000...+1000 mv	-1000...+1000 mv	-		-1000 ...+1000mv	-1000...+1000 mv
Resolution	0.1 / 1 mv	0.1 / 1 mv	0.1 / 1 mv	-	-	0.1 / 1 mv	0.1 / 1 mv
mV(ORP) measuring range	-1000...+1000 mv	-	-		-1000...+1000 mv		-1000...+1000 mv
Resolution	0,1 / 1 mv	-	-		0,1 / 1 mv		0,1 / 1 mv
Calibration	1 point	-	-		1 point		1 point
COND measuring range	-	-	-	0,01uS...199,99 mS	-	0,01uS...199,99mS	0,01uS...199,99mS
Resolution	-	-	-	Auto	-	Auto	Auto
Calibratin point	-	-	-	1...3	-	1...3	1...3
Reference T	-	-	-	20 / 25 ºC	-	20 / 25 ºC	20 / 25 ºC
TDS measuring range	-	-	-	0,01ppm...199,9ppt	-	0,01ppm...199,9ppt	0,01ppm...199,9 ppt
TDS factor	-	-	-	0.40 ... 1.00	-	0.40 ... 1.00	0.40 ... 1.00
Salinity measuring range	-	-	-	0,1 mg/l ... 100,0 g/l	-	0,1 mg/l...100,0 g/l	0,1 mg/l...100,0 g/l
Temperature range	0 ... 60 °C	0 ... 60 °C	0 ... 60 °C	0 ... 60 °C	0 ... 60 °C	0 ... 60 °C	0 ... 60 °C
Display	3 colour	3 colour	3 colour	3 colour LCD	3 colour LCD	3 colour	3 colour
IP protection	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Sensor	Replaceable	Replaceable	Replaceable	Replaceable	Replaceable	Replaceable	Replaceable
Code	50014143	50014063	50014113	50014213	50014313	50014263	50014293

The KIT includes: sachets of buffer solutions 25 ml, calibration cap, lanyard, tissuess, quick manual and cardboard case.

pH 1

pH

IP67 watertight portable pH meter. Resolution 0.1 pH with microprocessor and fixed sensor. Push-button calibration on 1 or 2 points (choosing between pH 4, 7, 10). Wide LCD display with indication of the buffers used for calibration and measurement stability. **Automatic temperature compensation**. Auto power off function. **Self-diagnosis messages: low batteries, calibration errors**. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.
6-month warranty on electronic parts.

Measuring range: pH 0,0...14,0 (0,1 pH). Working temperature: 0..50°C

The KIT includes: 1 sachet x 25 ml pH 7 and pH 4 buffer solution , 1 sachet of storage solution, calibration cap, lanyard, tissuess, quick manual and cardboard case.

Name	Description	p/n
pH 1 KIT	pH 1 **Kit complete**	50014013
pH 1 ECOPACK	pH 1, batteries 1,5 V AAA, lanyard, tissuess, storage	50014003

COND 1

Conductivity - TDS

IP67 watertight portable conductivity meter for Conductivity and TDS measurement.
Indication of the buffers used for calibration and measurement stability. Auto power off function. Self-diagnosis messages. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.
6-month warranty on electronic parts.

Measuring range: COND 0,01 µS...200 mS; TDS 0,01 ppm...199,9 ppt. Working temperature: 0..50°C

The KIT includes: 1 sachet x 25 ml 1413 µS and 12,88 mS buffer solution, lanyard, tissues, quick manual and cardboard case.

Name	Description	p/n
COND 1 KIT	COND 1 **Kit complete**	50014163
COND 1 ECOPACK	COND 1, batteries 1,5 V AAA, lanyard, quick manual	50014153

pH 5

○ pH - mV - T

IP67 watertight portable pH meter. **Resolution 0,01 pH**, with microprocessor and interchangeable electrode, temperature sensor and open partitions. **Wide 3-colour LCD display with indication of the buffers used for calibration and measurement stability**. Push-button calibration on 3 points with 5 values of USA buffers. mV reading for pH electrode diagnosis or for ORP sensor connection. **Temperature reading**. Auto power off function. **Automatic temperature compensation** (0...60 °C). Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.
1 year warranty on electronic parts.

Measuring range: pH: -2,00...16,00 (Resolution 0,01 pH); mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH 4 buffer solutions, 1 sachet of electrode storage solution, calibration cap, lanyard, tissues, quick manual and cardboard case.

Name	Description	p/n
pH 5 KIT	pH 5 **Kit complete**	50014063
pH 5 ECOPACK	pH 5, batteries 1,5 V AAA, storage, lanyard and quick manual	50014053
pH 5 ONLY BODY	pH 5, **without sensor**	50014073
ELECTRODE pH	Replacement electrode for pH 5	50014403

pH 5 Food

○ pH - mV - T

IP67 watertight portable pH meter. **Resolution 0,01 pH**, with microprocessor and interchangeable polymer-tipped electrode, temperature sensor and open partitions for **measurements in the food industry**. **Wide 3-colour LCD display with indication of the buffers used for calibration and measurement stability.** Push-button calibration on 3 points with 5 values of USA buffers. mV reading for pH electrode diagnosis. **Temperature reading**. Auto power off function. **Automatic temperature compensation** (0...60 °C). Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.
1 year warranty on electronic parts.

Measuring range: pH: -2,00...16,00 (Resolution 0,01 pH); mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH 4 buffer solutions, 1 sachet of electrode storage solution, calibration cap, lanyard, tissues, quick manual and cardboard case

Name	Description	p/n
pH 5 Food KIT	pH 5 Food **Kit complete**	50014113
pH 5 Food ECOPACK	pH 5 Food with batteries 1,5 V AAA, storage, lanyard and quick manual	50014123
ELECTRODE pH	Replacement electrode for pH 5 Food	50014423

COND 5

Conductivity - TDS - Salinity - T

IP67 watertight portable conductivity meter for Conductivity, TDS and Salinity measurement. Automatic scale change.
With microprocessor and high-durable interchangeable electrode. **Wide 3-color LCD display** with **indication of the buffers used for calibration** and measurement stability. Push-button calibration on 3 points with 3 standard values, choosing between 84, 1413 µS and 12,88 mS. Reading and automatic temperature compensation with TR= 20/25 °C and adjustable coefficient TC= 0,00...4,00%/°C. TDS Factor: 0,40...1,00. Self-diagnosis messages. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.
Auto power off function.
1-year warranty on electronic parts.

Measuring range: COND 0,01 µS...200 mS; TDS 0,01 ppm...199,9 ppt; Salinity 0,1mg/l...100,0 g/l.

The KIT includes: 1 sachet x 25ml 1413 µS and 12,88 mS buffer solutions, calibration cap, lanyard, tissues, quick manual and cardboard case.

Name	Description	p/n
COND 5 KIT	COND 5 **Kit complete**	50014213
COND 5 ECOPACK	COND 5, batteries 1,5 V AAA, lanyard and quick manual	50014203
COND 5 ONLY BODY	COND 5, without sensor	50014223
SENSOR COND	Replacement sensor for COND 5	50014413
VPT SOIL COND 5	Conductivity cell with temperature probe, C = 1, fo ground measurement, working range 10 µS ... 50 mS, cable 1.5 m for COND 5	50014713

ORP 5

Redox - T

IP67 watertight portable ORP/Redox meter. Resolution 0,1/1 mV. With microprocessor and interchangeable **high-durable electrode. ORP calibration** on one point decided by the user.
Wide 3-color LCD display with indication of measurement stability. Auto power off function.
Temperature reading. Self-diagnosis messages. Power supply with 2 x 1,5V AAA batteries included, compatible with rechargeable batteries too.
1 year warranty on electronic parts.

Measuring range: mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: : 1 bottle x 55ml Redox 475 mV solution, 1 sachet of electrode storage solution, calibration cap, lanyard, tissues, quick manual and carboard case.

Name	Description	p/n
ORP 5 KIT	ORP 5 **Kit complete**.	50014313
SENSOR REDOX	Replacement sensor for ORP 5	50014443

PX 4

pH - Redox - T

MAIN FEATURES

IP67 watertight portable pH and ORP/Redox meter. **Resolution** 0,01 pH and 0,1 / 1 mV. With microprocessor and interchangeable combined electrode. **Wide 3-colour LCD display** with **indication of the buffers used for calibration** and measurement stability. **pH automatic calibration** on 3 points with 5 values of USA buffers and **ORP calibration** on 1 point decided by user. **mV reading for pH electrode diagnosis** and ORP/Redox measurement. **Temperature reading**. Auto power off function. **Automatic temperature compensation** (0...60 °C). Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too. 1 year warranty on electronic parts.

Measuring range: pH: -2,00...16,00 (0,01 pH); mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH4 buffer solutions, 1 bottle x 55ml Redox 475 mV, 1 sachet of electrode storage solution, calibration cap, lanyard, tissues, quick manual and carboard case.

Name	Description	p/n
PX 4 KIT	PX 4 **Kit complete**	50014143
PX 4 ECOPACK	PX 4 , batteries 1,5 V AAA, storage, lanyard and quick manual	50014173
ELECTRODE pH + REDOX	Replacement sensor for PX 4	50014463

PC 5

pH - Conductivity- TDS - Salinity -T

MAIN FEATURES

IP67 watertight portable multiparameter for pH, Conductivity, TDS and Salinity measurement. Interchangeable combined electrode. Indication of the buffers used for calibration and measurement stability. Self-diagnosis messages. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.
Auto power off function.
1 year warranty on electronic parts.

pH: Resolution 0,01 pH. Push-button calibration on 3 points with 5 values of USA buffers.
mV reading for pH electrode diagnosis.
COND: Push-button calibration on 3 points with 3 standard values, choosing between 84, 1413 µS e 12,88 mS. Adjustable coefficient TC= 0,00...4,00%/°C.
TDS Factor: 0,40...1,00.

Measuring range:
pH: -2,00...16,00 (0,01 pH);
mV: -1.000...+1.000 mV;
COND 0,01 µS...200 mS;
TDS 0,01 ppm...199,9 ppt;
Salinity 0,1mg/l...100,0 g/l;
T: 0,0...60,0°C (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH 4 buffer solutions, 1 sachet of electrode storage, 1 sachet x 25ml 1413 µS buffer solution, calibration cap, lanyard, tissues, quick manual and cardboard case.

Name	Description	p/n
PC 5 KIT	PC 5 **Kit complete**	50014263
PC 5 ECOPACK	PC 5 , batteries 1,5 V AAA, storage, lanyard and quick manual	50014253
ELECTRODE PC	Replacement electrode for PC 5	50014433

PC 6

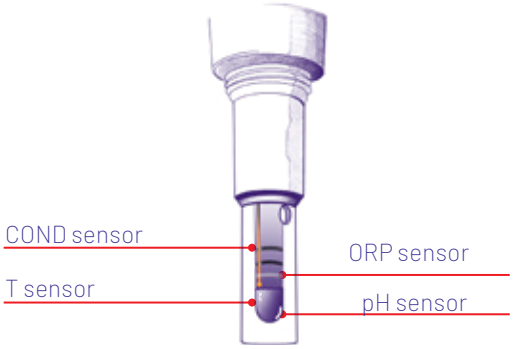
○ pH -Redox - Conductivity- TDS - Salinity - T

MAIN FEATURES

IP67 watertight portable multiparameter for pH, ORP, Conductivity, TDS and Salinity measurement. High-durable interchangeable combined electrode. **Wide 3-colour LCD display** with **indication of the buffers used for calibration** and measurement stability. Reading and **automatic temperature compensation** (0...60°C). Auto power off function. Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.
1 year warranty on electronic parts.

pH: Resolution 0,01 pH. Automatic calibration on 3 points with 5 values of USA buffers and . ORP calibration on one point decided by the user.
mV reading for pH electrode diagnosis and ORP/Redox measurement.
COND: Automatic **calibration on 3 points with 3 standard, choosing between 84, 1413 µS e 12,88 mS.**
Automatic temperature compensation with TR= 20/25°C and adjustable coefficient TC= 0,00...4,00%/°C. **TDS** factor: 0,40...1,00.

Measuring range :
pH: -2,00...16,00 (0,01 pH);
mV: -1.000...+1.000 mV;
COND 0,01 µS...200 mS;
TDS 0,01 ppm...199,9 ppt;
Salinity 0,1mg/l...100,0 g/l;
°C: 0,0...60,0°C (0,1°C).



The KIT includes: 1 sachet x 25 ml pH 7 and pH 4 buffer solutions, 1 sachet x 25 ml storage solution and 1413 µS standard solution, calibration cap, lanyard, tissues, quick manual and carboard case.

Name	Description	p/n
PC 6 KIT	PC 6 **Kit complete**	50014293
ELECTRODE PC	Replacement electrode for PC 6	50014483

CALIBRATION BUFFER SOLUTIONS

Name	Description	p/n
pH 4,01	1 bottle x 55 ml buffer solution. Accuracy ±0,01 pH	32383123
pH 7,00	1 bottle x 55 ml buffer solution. Accuracy ±0,01 pH	32383133
475 mV	1 bottle x 55 ml buffer solution for REDOX	32383153
1413 µS	1 bottle x 55 ml buffer solution	60000423
12 880 µS	1 bottle x 55 ml buffer solution	60000433
84 µS	1 bottle x 55 ml buffer solution	60000613

NOTE

GIORGIOBORMAC

SCALES

HOW TO CHOOSE

	Resolution (g)	Capacity (g)	Model	Calibration	RS-232	Batteries	p/n
NEW	0,0001	220	**BL 224** TOUCHSCREEN	Internal + External	●		27006033
	0,0001	220	**BL 224**	Internal + External	●		27006003
	0,0001	220	**BL 224** BASIC	External	●		27005993
NEW	0,001	200	**BM 203** TOUCH MOISTURE ANALIZER	External	●	●	27001313
	0,001	110	**BM 113** MOISTURE ANALIZER	External	●		27001303
	0,001	300	**BL 303**	External	●	●	27000513
	0,01	600	**BL 602**	External		●	27000323
	0,01	2.000	**BL 2002** BASIC	External	●	●	27000303
	0,01	2.000	**BL 2002**	External	●	●	27000313
	0,1	3.000	**BL 3001**	External		●	27000113
	0,1	6.000	**BL 6001** BASIC	External	●	●	27000293
	0,1	6.000	**BL 6001**	External		●	27000123
	0,1	30.000	**BL 30K1**	External		●	27000133
	1	30.000	**BL 30K**	External	●	●	27001203
	10	100.000	**BL 100K**	External	●		27001213
	1	3.000	**BW 3000** WATERPROOF	External		●	27001003

NEW BL 224 TOUCH

- 5" touch screen display
- Capacity: 220 g
- Resolution: 0,0001 g (0,1 mg)
- Internal memory for up to 500 measurements

Digital precision analytical scale.
5-inch touch screen display.
Round stainless steel weighing pan.

Large protective cover to protect against draughts in the laboratory.
3 opening sides, including one at the top for pipetting without having to remove the case.
Multiple functions, all easily performed thanks to the new intuitive interface with icons.

Internal memory for storing **500 measurements.**
RS232 output **for connection to a PC or printer (printed data: date, time and weight).**

Supplied with power supply, 200 g sample mass (class F1) and ACCREDIA traceable calibration report

	Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
NEW	**BL 224** TOUCHSCREEN	INTERNAL and EXTERNAL	90	± 0,0001	± 0,0002	27006033
NEW	**DENSITY KIT**	Kit for density calculation, exclusively for BL 224 TOUCH				27000923

BL 224

- Capacity: *220 g*
- Resolution: *0,0001 g (0,1 mg)*

Analytical, precision digital scale. Backlit display. Stainless-steel plate.
Protection case against air currents in laboratory. Upper opening for pipetting without removing the case. Piece counter mode, determination of %, formulations, pipette calibration function, statistics and density calculation (with optional accessory kit).
Standard RS 232 output for connection to PC or printer.
Provided with standard 220V power supply.
Supplied with Certificate of calibration made with weights certified Accredia, including test of repeatability, linearity and off-centre load.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 224	INTERNAL + EXTERNAL	90	± 0,0001	± 0,0002	27006003

BL 224 BASIC

- **Capacity:** *220 g*
- **Resolution:** *0,0001 g (0,1 mg)*

Analytical, precision digital scale. Backlit display. Stainless-steel plate. Protection case against air currents in laboratory. Upper opening for pipetting without removing the case. Standard RS 232 output for connection to PC or printer. Standard 220V power supply.
Supplied with external standard weight for calibration 100 g - E2class.
Supplied with **Certificate of calibration made with weights certified Accredia, including test of repeatability, linearity and off-centre load.**

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 224 BASIC	EXTERNAL	90	± 0,0003	± 0,0003	27005993

BL 303

- **Capacity:** *300 g*
- **Resolution:** *0,001 g (1 mg)*

Backlit display.Round plate with diameter 118 mm in stainless-steel.
Protection case against air currents in laboratory.
Upper opening for pipetting without removing the case.
Piece counter mode, determination of % and 21 different selectable measurement units.
Scale with dual power supply, AGM rechargeable battery and standard power supply.
Standard RS 232 output for connection to PC or printer.
Supplied with case and a weight of 100 g M1 class.
Provided with Certificate of calibration with weights Accredia certified, including test of repeatability, linearity and off-centre load.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 303	EXTERNAL	118	± 0,002	± 0,002	27000513

BL 602

- **Capacity:** *600 g*
- **Resolution:** *0,01 g*

Technical, precision digital scale. Backlit Display.
Round plate with diameter 118 mm in stainless-steel.
Protection case, easily removable, ideal for counting small pieces, protected from external disturbances.
Upper opening for pipetting without removing the case.
Piece counter mode, determination of % and 21 different selectable measurement units. Balance with dual power supply, AGM rechargeable battery standard power supply.
Standard RS 232 output for connection to PC or printer.
Supplied with case and 2 standard weights of 100 g M1 class.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 602	EXTERNAL	118	± 0,01	± 0,01	27000323

BL 2002

- **Capacity:** 2000 g
- **Resolution:** 0,01 g

Technical, digital scale of precision. Backlit Display.
Rectangular stainless-steel plate.
Piece counter mode, determination of % and 21 different selectable measurement units.
Scale with dual power supply, AGM rechargeable battery and standard power supply.
Standard RS 232 output for connection to PC or printer.
Supplied with dust protection cover and a standard weight of 1 Kg M1 class.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 2002	EXTERNAL	188 x 148	± 0,02	± 0,02	27000313

BL 3001 / 6001

- **Capacity:** *3 Kg / 6 Kg*
- **Resolution:** *0,1 g*

Technical, digital scale of precision. Backlit Display.
Rectangular stainless-steel plate mm 188 x 148.
Piece counter mode, determination of % and 21 different selectable measurement units. Balance with dual power supply, AGM rechargeable battery and standard power supply.
Standard RS 232 output for connection to PC or printer.
Supplied with dust protection cover and a standard weight of 1 Kg M1 class.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 3001	EXTERNAL	188 x 148	± 0,2	± 0,2	27000113
BL 6001	EXTERNAL	188 x 148	± 0,2	± 0,2	27000123

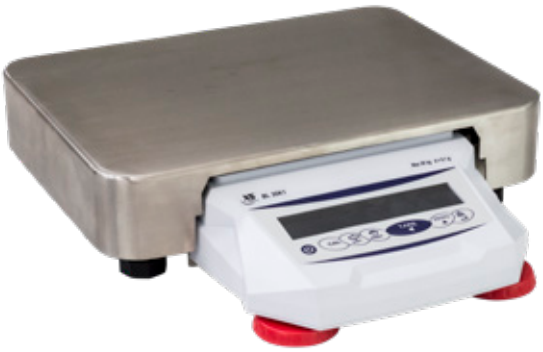
BL 2002 BASIC / BL 6001 BASIC

- **The cheapest**
- **Capacity:** *2000 g / 6000 g*
- **Resolution:** *0,01 g / 0,1 g*

Technical, digital scale of precision with backlit Display.
Rectangular stainless-steel weighing plate.
Piece counter mode.
Scale with dual power supply, AGM rechargeable battery and standard power supply.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 2002 BASIC	EXTERNAL	160 x 120	± 0,02	± 0,02	27000303
BL 6001 BASIC	EXTERNAL	143 x 192	± 0,2	± 0,2	27000293

BL 30K 1



- **Capacity:** *30 Kg*
- **Resolution:** *0,1 g*

Technical, digital scale of precision with backlit Display.
Rectangular stainless-steel weighing plate.
Piece counter mode, determination of % and different selectable measurement units.
Scale with dual power supply, AGM rechargeable battery and standard power supply.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 30K 1	EXTERNAL	330 x 260	± 0,2	± 0,2	27000133

BL 30K

- **Capacity:** *30 Kg*
- **Resolution:** *1 g*

Technical, digital scale of precision.
Rectangular stainless-steel weighing plate.
Piece counter mode, determination of % and different selectable measurement units.
Scale with dual power supply, AGM rechargeable battery and standard power supply.
Standard RS 232 output for connection to PC or printer.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 30K	EXTERNAL	255 x 190	± 1	± 3	27001203

BL 100K

- **Capacity:** *100 Kg*
- **Resolution:** *10 g*

Technical, digital scale of precision.
Removable backlit Display.
Rectangular stainless-steel weighing plate.
Piece counter mode, determination of % and different selectable measurement units.
Standard 220V power supply.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 100K	EXTERNAL	300 X 400	± 10	± 5 g (0..5 Kg); ± 10 g (5..20 Kg); ± 15 g (20..100 Kg)	27001213

BW 3000 WATERPROOF

- **Capacity:** *3000 g*
- **Resolution:** *1 g*
- **IP67**
- **Double display**

IP67 watertight digital precision technical scale.
Dual display, one on the front and one in the back, very useful for assembly line work.
Stainless steel rectangular weighing plate with dimensions 220 x 180 mm.
Piece counter mode, determination of %
Metal outer case
Scale with dual power supply, AGM rechargeable battery and standard power supply.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BW 3000	EXTERNAL	225 x 185	± 1	± 1	27001003

NEW BM 203 TOUCH MOISTURE ANALYZER

- 5" Touch Screen Display
- **Capacity:** 200 g
- **Resolution:** 0,001 g (1 mg)
- **Internal memory** for up to 32 drying cycles

Precision digital moisture analyzer
5-inch touch screen display
Round stainless steel weighing plate
Halogen lamp for heating (40–185 °C) and PT100 temperature sensor
Internal memory for storing up to 32 drying cycles
Three drying methods and three stop methods

Multilingual software
RS232 output for connection to a PC or printer
(printed data: sample ID, date, time, temperature, drying method, stop method, %M, %D, %W, %R, initial weight and dry weight)

Supplied with power cable, 100 g sample mass (class F1), pack of 50 aluminium plates and ACCREDIA traceable calibration report

	Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
NEW	**BM 203** TOUCHSCREEN	EXTERNAL	90	± 0,001	± 0,002	27001313
NEW	**PLATES**	Pack of 50 simple-use aluminium plates Ø 90 mm for BM 203 TOUCH				27000913

BM 113 MOISTURE ANALYSER

- **Capacity:** *110 g*
- **Resolution:** *0,001g*

Precision thermoscale. Backlit Display.
Stainless steel round weighing plate with an external diameter of 90 mm.
GLP protocol.
Internal memory for automatic sequence of 15 drying programs.
Three drying methods: Soft, Standard, Fast.
Three switch-off methods: Auto, Manual, Timer.
400W Halogen lamp.
Standard RS 232 output for connection to PC or printer.
Supplied with: standard weight of 100 g for calibration and control, 50 aluminium plates, calibration report, including test of repeatability, linearity, off-centre load and temperature check.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BM 113	EXTERNAL	90	40 ... 199 °C	1 ... 99 min	27001303
PLATES	Single use aluminium plates with external diam. 90 mm, 1 pack x 50 pieces				27000883

ACCESSORIES

	Name	Description	p/n
	COVER	Plastic dust cover for models BL 303, BL 602, BL 2002, BL 3001 and BL 6001	27000803
	PRINTER RS 232	XS BALANCE printer with thermal paper and RS232 cable	27000863
	RS-232/USB CABLE	Connection cable for PC or printer	27000873
	POWER SUPPLY	Power supply for models BL 303, BL 602, BL 2002, BL 3001, BL 6001, BL 30K1. Input: 100-240 V – 50/60 Hz 0,4 A max - Output: 12V - 1000 m	27000843
	POWER SUPPLY	Power supply for BL 2002 Basic and BL 6001 Basic models Input: 100-240 V – 50/60 Hz 0,5 A max / Output: 9 V – 500 mA	27103049
	WEIGHT 100 g	Weight 100 g in class M1 for XS Balances	27000813
	WEIGHT 1 Kg	Weight 1000 g in class M1 for XS Balances	27000823
NEW	**DENSITY KIT**	Kit for density calculation, exclusively for BL 224 TOUCH	27000923
	DENSITY KIT	Kit for density calculation, exclusively for BL 224	27000893
NEW	**PLATES**	Pack of 50 single-use aluminium plates Ø 90 mm for BM 203 TOUCH	27000913
	PLATES	Pack of 50 single-use aluminium plates Ø 80 mm for BM 113	27000883

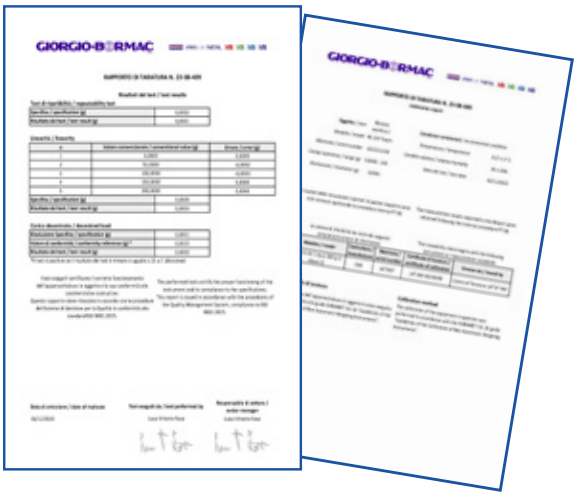
CALIBRATION REPORT

ACCREDIA REFERENCE calibration report for XS BALANCE

To be ordered together with the purchase of scales not already supplied with a certificate or to be ordered for the renewal or new issue, of a certificate of a scale previosuly purchased.
Available for all models (except BL 100K)

Tests carried out with ACCREDIA certified masses and weights

- **REPEATIBILITY**
- **LINEARITY**
- **OFF-CENTRE LOAD**
- **TEMPERATURE CHECK** (only for BM 203 TOUCH and BM 113)



	p/n
CALIBRATION REPORT	27000903

CENTRIFUGES

NEYA by XS

WARRANTY 2 YEARS

EU Designed

ISO certified manufacturer

HOW TO IDENTIFY THE ACCESSORIES

FIRST LETTER

A = Fixed angle rotor
S = Swing out rotor
B = Bucket
SB = Swing out rotor + Buckets (KIT)
L = Lid of bucket
I = Insert for bucket
C = Cushion
RE =Reductor
T = Tube
PCR = PCR rotor

CENTRAL NUMBERS*

1° NUMBER = maximum number of tubes
2° NUMBER= capacity of the tube (ml)

Only in the reducers (RE), the central numbers identify the capacity reduction (ml); in case of only one central number, it represents the capacity.
In the PCR rotor the central numbers identify the number of PCR strips and the number of tubes for each single strip.

FINAL LETTER

F = Falcon® tube or conical bottomed tube included
P = Plastic round-bottomed tube included
G = Glass round-bottomed tube included
R = Suitable for round-bottomed tube
X = Additional bucket (long version)

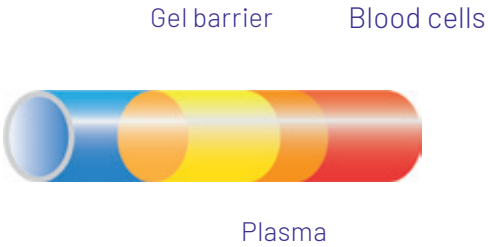
A 32-15 N	Fixed-angle rotor for 32 – 15 ml tubes
S 4 - 175	Swing out rotor for 4 buckets of 175 ml
B 16 - 5 / 7	Aluminium bucket for 16 tubes of 5/7 ml
SB 4 - 175	Kit composed by swing out rotor S 4-175 and 4 glasses B 175 of 175 ml
I 4-15R	Insert for 4 round-bottomed tubes of 15 ml
RE 50-15F	Conical bottomed reductor from 50 ml to 15 ml
B 50XF	Test tube rack extra version with Falcon® test tube 50 ml

CENTRIFUGING

The centrifuges are instruments used in many laboratories to separate particles in liquid solutions or in liquids with a different density, using an artificial centrifugal field.
The application of the centrifuges allows to develop a much higher force than the Earth's gravity, speeding-up the separation and sedimentation process.

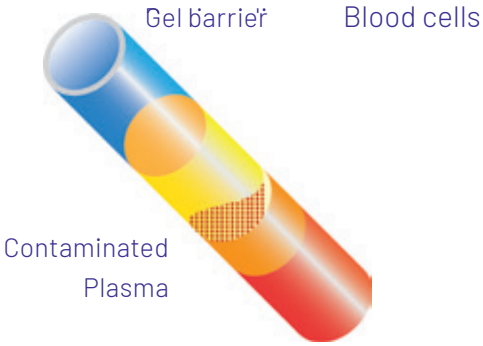
SWING OUT ROTORS (with variable angle)

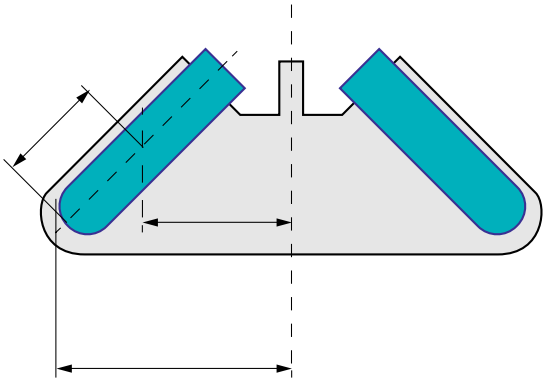
During the centrifugation, the tubes turn into a perpendicular position with respect to the rotation axis of the rotor. Therefore, the distance and the time necessary for the sedimentation are higher, but the phases limits develop clearly and perpendicular. The swing out rotors are generally used to centrifuge a bigger quantity of samples at medium speed.



ANGLE ROTORS (with fixed angle)

The oblique angle of the tubes reduces the sedimentation distance, decreasing the necessary time for the separation of the phases, that are inclined with respect to the tube and less net. The angle rotors are generally used to centrifuge a smaller quantity of samples at high speed.





The simplified formula for the RCF is:

$RCF = (n/1000)^2 \times r \times 11{,}18$

where n = speed (rpm) and r = ray in cm

CALCULATION OF THE CENTRIFUGAL FORCE

Generally, the performances of a centrifuge are indicated following the maximum achievable speed. However, the speed indicates approximately the real force which developed in the centrifuged sample and which generates the separation. This power expresses as Relative Centrifugation Force (RCF).
Its value indicates the multiple of times that the force exceeds the acceleration caused from the gravity "g".
Looking at the formula here on the left, the RCF is directly proportional to the ray of the rotor and linked to the square of the speed. This means that the RCF doubles if the ray doubles and quadruples if the speed doubles.

Therefore, the performances of the centrifuges should be compared on values expressed in RCF only.

NEYA 8 Basic

- **Maximum loading capacity:** *4x175 ml*
- **Maximum speed:** *6000 rpm*
- **Automatic rotor detection**
- **Control of the maximum speed of the rotor**
- **Safety speed limiter function**
- **Backlit colour LCD display**

Ventilated benchtop centrifuge with **automatic rotor detection**, check of presence of accessories and of allowed max. speed.
Speed limiter for laboratory safety. Display of all centrifugation parameters on a single screen.
Low number of keys, adjustment handle with confirming function and guide for an extremely intuitive operativity.
Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 6000 rpm (subjected to the placed rotor) with step of 50 rpm.
Centrifugation time from 00:30 to 99:50 (mm:ss) with increases in 10 seconds or constantly function.
Acceleration and deceleration adjustable on 3 levels.
Automatic locking system of the lid with possibility to recover the tubes in case of electric power absence.
Imbalance detection system with automatic functioning stop.
The centrifuge follows the directives EN61010-1; EN61010-2-020; EN61326-1.
Compact sizes to optimize the space in laboratory
The room access height of only 27,5 cm makes the loading and unloading operation of the centrifuge easy.

Power supply: 220V, 50 Hz.
Max. noisiness: 55 dB

Name	Max load	Max speed.	External dimensions (L x W x H)	Weight	p/n
NEYA 8 WITHOUT ROTOR	4 x 175 ml	6000 rpm	45 x 59 x 33 cm	40 Kg	40100302

NEYA 10 Professional

- **Maximum loading capacity:** *4x175 ml*
- **Maximum speed:** *6000 rpm*
- **Automatic rotor detection**
- **Max speed control**
- **Safety speed limiter** function
- **Backlit display multicolor** LCD

Ventilated benchtop centrifuge with a**utomatic rotor detection**, check of presence of accessories and of allowed max. speed. **Speed limiter for laboratory safety**. Display of all centrifugation parameters on a single screen.
Low number of keys, adjustment handle with confirming function and guide for an **extremely intuitive operativity**.
Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 6000 rpm (subjected to the placed rotor) with step of 50 rpm. Centrifugation time from 00:30 to 99:50 (mm:ss) with increases in 10 seconds or constantly function.
Acceleration and deceleration adjustable on 3 levels.
Automatic locking system of the lid with possibility to recover the tubes in case of electric power absence.
Imbalance detection system with automatic functioning stop.
The centrifuge follows the directives **EN61010-1; EN61010-2-020; EN61326-1.**

Compact sizes to optimize the space in laboratory
The room access height of only 27,5 cm makes the **loading and unloading operation of the centrifuge easy**.

Power supply: 220V, 50 Hz.
Max. noisiness: 55 dB

NEYA 10 R

REFRIGERATED VERSION

Adjustable temperature from **–10 °C to +40 °C** (from +14 to +104 °F) with increases and decreases of 1 °C (or 1°F).
" Precool " function for the fast cooling of the centrifuge

Power supply: 220V, 50 Hz.
Max. noisiness: 55 dB

Name	Max load	Max speed	External dimensions (L x W x H)	Weight	p/n
NEYA 10 WITHOUT ROTOR	4 x 175 ml	6000 rpm	45 x 59 x 33 cm	40 Kg	40100312
NEYA 10 R WITHOUT ROTOR	4 x 175 ml	6000 rpm	73 x 64 x 33 cm	70 Kg	40100332

NEYA 16 High Speed

- **Maximum loading capacity::** *4x175 ml*
- **Maximum speed:** *16000 rpm*
- **Automatic rotor detection**
- **Max speed control**
- **Safety speed limiter** function
- **Backlit display multicolor** LCD

Ventilated or refrigerated centrifuge (CFC-free), with a**utomatic rotor detection**, check of presence of accessories and of allowed max. speed.
Speed limiter for laboratory safety. Display of all centrifugation parameters on a single screen. .

Low number of keys, adjustment handle with confirming function and guide for an extremely intuitive operativity.
Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 16000 rpm (subjected to the rotor placed) with step of 50 rpm.
RCF adjustable up to 21000 xg (subjected to the placed rotor).
Centrifugation time from 00:30 to 99:50 (mm:ss) with increases in 10 seconds or constantly function.
Acceleration and deceleration adjustable on 10 levels.
10 Programs with overwriting security system.

Centrifugal function **SPIN**.
Acoustic and lighting end-of-centrifugation warning.
Automatic locking system of the lid with possibility to recover the tubes in case of electric power absence.
Imbalance detection system with automatic functioning stop.
The centrifuge follows the directives **EN61010-1; EN61010-2-020; EN61326-1.**
Compact sizes to optimize the space in laboratory
The room access height of only 27,5 cm makes the **loading and unloading operation of the centrifuge easy.**

Max. noisiness: 55 dB
Power supply: 220V, 50 Hz.
Warranty: 24 months

NEYA 16 R

REFRIGERATED VERSION

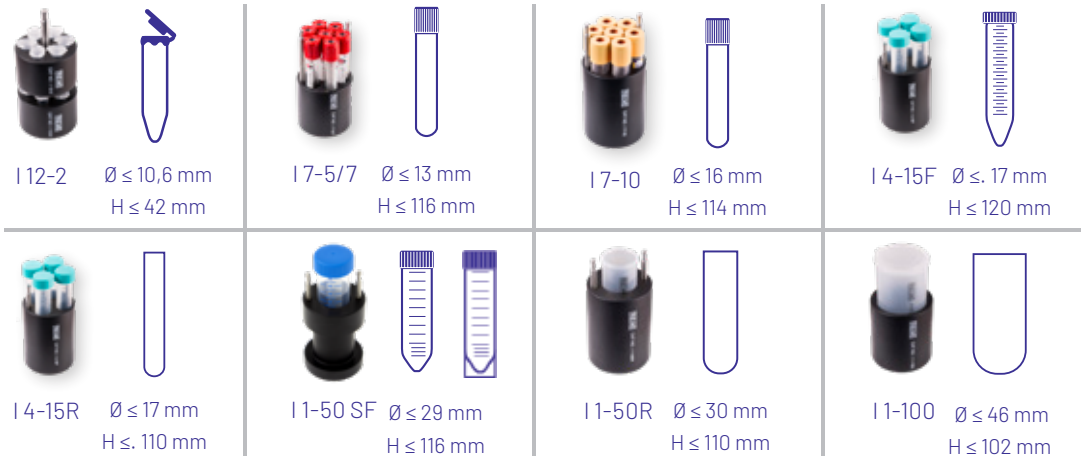
Adjustable temperature from **–10 °C to +40 °C** (from +14 to +104 °F) with increases and decreases of 1 °C (or 1°F).
" Precool " function for the fast cooling of the centrifuge.

Name	Max load	Max speed	External dimensions (L x W x H)	Weight	p/n
NEYA 16 WITHOUT ROTOR	4 x 175 ml	16000 rpm	45 x 59 x 33 cm	40 Kg	40100322
NEYA 16R WITHOUT ROTOR	4 x 175 ml	16000 rpm	73 x 64 x 33 cm	70 Kg	40100342

SWING OUT ROTORS

Name	Description	p/n
SB 4-175 KIT	**Kit** includes : Swing out rotor S 4-175 , maximum capacity 4 x 175 ml. Maximum speed 4.500rpm, RCF max. 3600xg. 4 buckets B 175 4 Biosafe lids L 175	40100502
L 175 SPARE PART COVER	Biosafe lid for bucket B 175.	40101522
B 175 SPARE PART GLASS	Aluminium bucket of 175 ml for rotor S 4-175.	40101512

HOW TO CHOOSE THE INSERT CONSIDERING THE TUBE



INSERTS FOR BUCKETS B 175 – KIT OF 4 PIECES – Tubes not included

Name	Description	Max Tubes	p/n
I 12-2	Kit of inserts (12 tubes each) of 1,5-2 ml type Eppendorf ®	48	40100602
I 7-5/7	Kit of inserts (7 tubes each) from levy Vacutainer® of 5-7 ml. (Ø x L) 13x75 and 13x100 mm.	28	40100612
I 7-10	Kit of inserts (7 tubes each) from levy Vacutainer® of 10 ml. (Ø x L) 16x100 mm	28	40100622
I 4-15 F	Kit of inserts (4 tubes each) with conical bottom type Falcon® of 15 ml. (Ø x L) 17x120 mm	16	40100632
I 4-15 R	Kit of inserts (4 tubes each) with round bottom of 15 ml (Ø x L) 17x110 mm	16	40100642
I 1-50 SF	Kit of inserts (1 tube each) with conical bottom type Falcon® of 50 ml (Ø x L) 29x116 mm. The insert is suitable with conical bottomed self-standing tubes.	4	40100682
I 1-50 R	Kit of inserts (1 tube each) with round bottomed of 50 ml. (Ø x L) 30x110 mm	4	40100662
I 1-100	Kit of inserts (1 tube each) with round bottomed of 100 ml. (Ø x L) 46x102 mm	4	40100672

TUBES

Name	Description	p/n
T 15F	Plastic tube type Falcon® of 15 ml (Ø x L) 17 x 120 mm	40003402
T 15G	Glass round bottomed tube of15 ml (Ø x L) 17 x 110 mm (max. speed 3000 rpm)	40003412
T 15P	Plastic round bottomed tube of 15 ml (Ø x L) 17 x 102 mm	40003422
T 50F	Plastic tube type Falcon® of 50 ml (Ø x L) 29 x 116 mm	40003432
T 50G	Glass round bottomed tube of 50 ml (Ø x L) 30 x 110 mm (max. speed 3000 rpm)	40003442
T 50P	Plastic round bottomed tube of 50 ml (Ø x L) 30 x 100 mm	40003452
T 100G	Glass round bottomed tube of 100 ml (Ø x L) 46 x 102 mm (max. speed 3000 rpm)	40003462
T 100P	Plastic round bottomed tube of 100 ml (Ø x L) 46 x 100 mm	40003472
T 175	Plastic tube with round bottom of 175 ml with screw lid (Ø x L) 57 x 97 mm	40003492

SWING OUT ROTORS

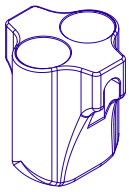
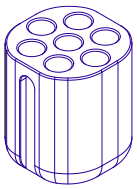
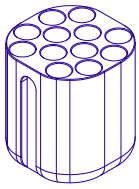
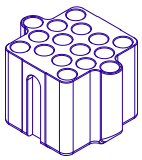
Name	Description	p/n
S 4-175 ONLY ROTOR	Swing out rotor maximum capacity 4 x 175 ml for aluminium carrier and buckets. Max. speed 4.500rpm, RCF max. 3.600 xg.	40101502
S 6-96 MP PLATES INCLUDED	Swing out rotor for microplates, maximum capacity of 6 plates of 96 wells. Maximum speed 3.200rpm, RCF max. 1.950 xg. Supplied with 2 trays.	40100522

S 4-175
ONLY ROTOR

S 6-96 MP
PLATES INCLUDED

CARRIERS FOR SWING OUT ROTOR S 4-175

Set of **4** pieces.

Name	Description		Max n° of tubes	p/n
B 2-50 F	Carrier for 2 conical bottomed tube type Falcon® of 50 ml (Ø x L) 29x116 mm.		8	40101532
B 2-50 R	Carrier for 2 round bottomed tubes of 50 ml (Ø x L) 30x110 mm .		8	40101582
B 7-15 F	Carrier for 7 conical bottomed tubes type Falcon® of 15 ml (Ø x L) 17x120 mm.		28	40101542
B 7-15 R	Carrier for 7 round bottomed tubes of 15 ml (Ø x L) 17x110 mm.		28	40101592
B 12-10	Carrier for 12 collection tubes Vacutainer® of 10 ml (Ø x L) 16x110 mm.		48	40101552
B 14-5/7	Carrier for 14 collection tubes Vacutainer® of 5-7 ml (Ø x L) 13x100 mm.		56	40101562
B 16-5/7	Carrier for 16 collection tubes Vacutainer® of 5-7 ml (Ø x L) 13x75 mm.		64	40101572

HIGH CAPACITY FIXED ROTORS

Name		Description	Max. speed.	RCF max (xg)	n° of tubes max	p/n
A 32-15 N		37° fixed angle rotor for 15 ml tubes	5200	4020	32	40100802
A 8-50		37° fixed angle rotor for 50 ml tubes	6000	4800	8	40100812
A 6-100		37° fixed angle rotor for 100 ml tubes	5000	3330	6	40100822

All the rotors are supplied without buckets.

BUCKETS– FOR HIGH CAPACITY ROTORS – TUBES INCLUDED

For rotor	Name	Description	p/n
A 32-15 MIN. 32 PCS	**B 15 F**	For conical bottomed tubes of 15 ml. Complete with Falcon® tube of 15 ml. (Ø x L) 17x120 mm	40101002
	B 15 G	For round bottomed tubes of 15 ml . Complete with glass tube of 15 ml. (Ø x L) 17x110 mm	40101012
	B 15 P	For round bottomed tubes of 15 ml . Complete with plastic tube of 15 ml. (Ø x L) 17x102 mm	40101022
A 6-50 MIN. 6 PCS A 8-50 MIN. 8 PCS	**B 50 XF**	for conical bottomed tubes of 50 ml. Complete with Falcon® tube of 50 ml (Ø x L) 29x116 mm	40101032
	B 50 XG	for round bottomed tube of 50 ml. Complete with glass tube of 50 ml (Ø x L) 30x110 mm	40101042
	B 50 XP	for round bottomed tubes of 50 ml. Complete with plastic tube of 50 ml. (Ø x L) 30x100 mm	40101052
A 6-100 MIN. 6 PCS	**B 100 G**	for round bottomed tubes of 100 ml. Complete with glass tube of 100 ml. (Ø x L) 46x102 mm	40101092
	B 100 P	for round bottomed tubes of 100 ml. Complete with plastic tube of 100 ml. (Ø x L) 46x110 mm	40101102

HIGH SPEED ROTORS FOR NEYA 16 AND NEYA 16 R

Name		Description	Max speed (rpm)	RCF max (xg)	n° of tubes max	p/n
A 6-50 HIGH SPEED		34° fixed angle rotor for 50 ml tubes. With BIOSAFE lid It is supplied without buckets.	9500	10050	6	40100862
A 12-5		45° fixed angle rotor for 5 ml Eppendorf® tubes With BIOSAFE lid	14000	20380	12	40100832
A 24-2		45° Fixed angle rotor for 1,5-2 ml Eppendorf® tubes With BIOSAFE lid	15000	21000	24	40100842
A 36-05		37° fixed angle rotor for 0,5 ml Eppendorf® tubes With BIOSAFE lid	15000	21.000	36	40100852
PCR 4-8		45° fixed angle rotor for PCR strip of 8 tubes With BIOSAFE lid	15000	21000	4	40100872

REDUCTORS – COMPLETE WITH BUCKETS – TUBES NOT INCLUDED

Name	Description	p/n
RE 15-5/7	Reductor for round bottomed tubes of 5/7 ml (Ø x L) 13x75 and 13x100 mm for rotor A32-15N	40101292
RE 50-15 F	Reductor for conical bottomed tubes type Falcon® of 15 ml. (Ø x L) 17x120 mm for rotor A 8-50 e A 6-50	40101322
RE 50-15 R	Reductor for round bottomed tubes of 15ml (Ø x L) 17x110 mm for rotor A 8-50 and A 6-50	40101332
RE 50-10	Reductor for round bottomed tubes of 10 ml (Ø x L) 16x100 mm for rotor A 8-50 and A 6-50	40101342
RE 100-50 F	Reductor for conical bottomed tubes of 50 ml type Falcon®. (Ø x L) 29x116 mm for rotor A 6-100	40101352
RE 100-50 R	Reductor for round bottomed tubes of 50 ml (Ø x L) 30x110 mm for rotor A 6-100	40101362
RE 100-15 F	Reductor for conical bottomed tubes of 15 ml type Falcon®. (Ø x L) 17x120 mm for rotor A 6-100	40101372
RE 100-15 R	Reductor for round bottomed tubes of 15 ml (Ø x L) 17x110 mm for rotor A 6-100	40101382

REDUCTORS – TUBES NOT INCLUDED

Name	Description	p/n
RE 2-05	Reductor for microtubes of 0,5 ml for rotor A 24-2. Kit of 24 pieces	40101262
RE 2-02	Reductor for microtubes of 0,2 ml for rotor A 24-2. Kit of 24 pieces.	40101272
RE 05-02	Reductor for microtubes 0,2 ml for rotor A 36-05. Kit of 36 pieces	40101282

NEW NEYA 5

- Maximum load capacity: 8x15/4x50 ml
- Maximum speed: 4700 rpm fixed/swing-out
- Hybrid fixed-angle and swing-out rotor
- Backlit LCD display

Laboratory centrifuge designed to offer high performance, maximum
reliability and versatile use in various scientific and medical contexts.

Thanks to its **fixed-angle and swing-out hybrid rotor**, it is suitable for
numerous applications, for accurate and repeatable results.
The compact, small-sized design optimises workspace, while the bright LCD display allows you to monitor all parameters clearly and intuitively.

Equipped with a maintenance-free brushless induction motor, the centrifuge ensures quiet, long-lasting operation and without accumulations of deposits.
Cycle management is made simple and
customisable thanks to **5 storable programmes and 1 direct access programme, with the possibility of digitally adjusting acceleration, deceleration and braking ramps**. Audible end-of-cycle warning.

Designed to ensure **maximum safety**, it is equipped with a **speed limiter, an imbalance detection system with automatic shutoff** and an automatic lid locking mechanism during operation.
In the event of a power failure, the **safe opening of the lid** protects the operator.

The ABS inner chamber is designed to facilitate the loading and unloading of samples, while the entire ABS structure ensures strength and ease of cleaning.
Compatible with blood tubes and urine test tubes, it offers a completerange of accessories to meet every need.

Built in accordance with European directives, this centrifuge represents the perfect combination of advanced technology, operational efficiency and attention to safety, making it an indispensable tool for any modern laboratory.

Power supply: 220V, 50 Hz, 375 W.
Noise level: 55 dB.

hybrid rotor

Name	Description	p/n
NEYA 5 WITHOUT ROTOR	Centrifuge 8x15 ml /4 x50 ml, 4700 rpm, 3350xg fixed / 3560xg swing-out	40100202
HYBRID ROTOR	FIXED CONFIGURATION Fixed angle rotor with FA15 carriers for 15 ml tubes and FA50 for 50 ml tubes, tube holders included	40110102
	SWING-OUT CONFIGURATION Swing-out rotor with SO15 carriers for 15 ml tubes and SO50 for 50 ml tubes, tube holders included	40110112
	BLOOD KIT Fixed and swing-out angle rotor with FA15 and SO15 carriers for 10 ml and 5/7 ml Vacutainer tubes, including tube holders and reducers	40110122
CARRIERS WITHOUT ROTOR	FIXED KIT Fixed angle kit equipped with FA15 carriers for 15 ml tubes (set of 4) and FA50 carriers for 50 ml tubes (set of 4), tube holders included	40110302
	SWING-OUT KIT Swing-out kit equipped with SO15 carriers for test tubes 15 ml (set of 4) and SO50 carriers for 50 ml test tubes (set of 4), tube holders included	40110312
	BLOOD KIT **Fixed and swing-out kit** for Vacutainer tubes equipped with: **FA15** fixed angle carrier with reducer for 10-5/7 ml Vacutainer tubes (set of 4) **SO15** swing-out carrier with reducer for 10-5/7 ml Vacutainer tubes (set of 4) Tube holder, RE15-5.7SB and RE15-7LB reducers included	40110322

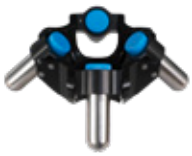
FIXED ANGLE HYBRID ROTOR CONFIGURATION

Complete with 15 ml and 50 ml carrier Maximum RPM: 4700 – Maximum RCF 3350g	15 ml fixed angle carrier (set of 4) included			50 ml fixed-angle carrier (set of 4) included		
Tubes capacity (ml)	2 x 15 ml			1 x 50 ml		
Total tubes per rotor	8 x 15 ml			4 x 50 ml		
Dimensions (Ø × L mm).	17x120	17x110 Glass	17x102 Plastic	29x116	30x110 Glass	30x100 Plastic
Compatible test tubes not included and not providable						
Bottom shape included	15 ml conical	15 ml spherical		50 ml conical	50 ml spherical	

p/n: **40110102**

SWING-OUT HYBRID ROTOR CONFIGURATION

Complete with 15 ml and 50 ml carrier. Maximum RPM: 4700 – Maximum RCF 3560g	15 ml Swing-out carrier (set of 4) included			50 ml Swing-out carrier (set of 4) included		
Tubes capacity (ml)	2 x 15 ml			1 x 50 ml		
Total tubes per rotor	8 x 15 ml			4 x 50 ml		
Dimensions (Ø × L mm).	17x120	17x110 Glass	17x102 Plastic	29x116	30x110 Glass	30x100 Plastic
Compatible test tubes not included and not providable						
Bottom shape included	15 ml conical	15 ml spherical		50 ml conical	50 ml spherical	



p/n: **40110112**

FIXED AND SWING-OUT HYBRID ROTOR CONFIGURATION (BLOOD KIT)

Complete with 10 – 5.7 ml carrier for fixed angle and 10 – 5.7 mm carrier for swing-out RPM max: 4700 fixed angle RCF msx: 3350 fixed angle 3560 swing-out rotor	10 – 5.7 ml Fixed-angle carrier (set of 4) included			10 – 5.7 ml swing-out carrier (set of 4) included		
Tubes capacity (ml)	2 x 10 ml / 5.7 ml			2 x 10 ml / 5.7 ml		
Total tubes per rotor	8 x 10 ml / 5.7 ml			8 x 10 ml / 5.7 ml		
Dimensions (Ø × L mm).	16x100	13x75 Glass	13x100 Plastic	16x100	13x75 Glass	13x100 Plastic
Vacutainer tubes not included and not providable						
Reducer included	-	RE15-5.7S	RE15-5.7L	-	RE15-5.7S	RE15-5.7L

p/n: **40110122**

Centrifuges

NEW R-5D

- **Maximum loading capacity** *12X15 ml*
- **Max speed** *5250 rpm*
- **Max RCF** *4280xg*
- **Timer** *from 1 to 60 min or continuous*

Ventilated benchtop centrifuge ,
with LCD display to set the speed and time of centrifugation.
Reduced number of buttons and adjustment knob for an extremely intuitive use.
Equipped with free-maintenance and silent induction motor.

Adjustable speed from 500 to 5250 rpm with step of 50 rpm.
Centrifugation time from 1 to 99 minutes with increases of 1 minute or
Continuous function.

Reduced breaking time thanks to the function **BREAK**
Maximum safety thanks to the automatic imbalance detection
Automatic lid locking system with possibility to recover the test tubes in case of power failure.
Reduced dimensions to optimize the space in laboratory
Power supply: 220V, 50 Hz, 250W.
Maximum noise level: 53 dB

Supplied with:
Aluminium rotor R-83A, 12x15 ml fixed-angle, steel carrier B 15 P and 15 ml plastic round bottomed tubes T 15-P 17x100 mm.

R-83 A

Name	Load capacity	Max speed	External dimensions (W x L x H)	Weight	p/n
NEW **R-5D** CENTRIFUGE	12 X 15 ml	5250 rpm	290 x 320 x 440	18,5 Kg	40000022

ACCESSORIES - FOR R-5D

Name	Description	p/n
R-83 A ROTOR	Spare rotor complete with test tubes and carriers B 15-P	40000272
B 15-P CANISTER	Spare carriers complete with 15 ml plastic tube	40101022
B 15-F CANISTER	Spare carriers complete with 15 ml Falcon tube	40101002
RE 15-5/7	Reducer for 5/7 ml round-bottomed tubes (Ø x L) 13x75 and 13x100 mm for rotor R 83-A	40101292

NEW D1524

- Maximum load capacity 24 x 2 ml
- Maximum speed 15,000 rpm
- Timer from 30 sec. to 99 min or continuous

High-performance benchtop microcentrifuge, compact and easy to use thanks to its low height. Equipped with an ultra-quiet induction motor, large backlit LCD display and automatic lock-opening lid. Stainless steel centrifuge chamber.
Adjustable speed and acceleration, "Pulse" function for rapid centrifugation, acoustic warning at the end of the cycle.
Speed: adjustable from 200 to 15,000 rpm in increments of 100 rpm.
RCF: adjustable from 10 to 21,380xg in increments of 10 xg.
10 storable programmes.
Diagnostic check for: open lid, overtemperature and electronic problems.
Imbalance sensor.

Power supply: 220V, 50-60 Hz. Maximum consumption: 400 W.
Maximum noise level: 56 dB.

D 1524 R REFRIGERATED MICROCENTRIFUGE

Same functional characteristics as model D1524, plus:

Temperature adjustable from -20 °C to +40 °C in increments and decrements of 1 °C; "Precool" function for rapid cooling of the centrifuge and maintenance of the set temperature after centrifugation.
Refrigerant: R290. Max consumption:
500 W.

Both supplied with:
AS24-2 rotor for 1.5-2 ml tubes, equipped with a Bio-Safe lid for biological safety and fully autoclavable.

Name	Load capacity	Max speed	External dimensions (W x L x H)	Weight	p/n
NEW **D 1524** VENTILATED	24 places - 2.0 ml microtubes	15000	300 x 440 x 250 mm	18 Kg	22000052
D 1524 R REFRIGERATED	24 places - 2.0 ml microtubes	1500	340 x 540 x 285 mm	33 Kg	22000042

ACCESSORIES - FOR D 1524 AND D 1524 R

Name	Description	p/n
AS 36-05 ROTOR	Fixed-angle rotor for 0.5 ml tubes, maximum number per rotor 36. Supplied with Bio-Safe sealed lid for biological safety. Maximum speed: 15,000 rpm, maximum acceleration 21,380 xg	22000222
AS 4-PCR 8 ROTOR	Fixed angle rotor for 4 strips of 8 PCR tubes, maximum number per rotor 32. Supplied with "Bio-Safe" lid for biological safety. Maximum speed: 15,000 rpm, maximum acceleration 21,380 xg	22000232
RI 02-24 REDUCER	For 0.2 ml tubes for AS24-2 rotor. Pack of 24 pcs.	22000302
RI 05-24 REDUCER	For 0.5 ml tubes for AS24-2 rotor. Pack of 24 pcs.	22000312
RI 02-36 REDUCER	RI02-36 reducer for 0.2 ml tubes for AS36-05 rotor. Pack of 36 pcs.	22000322

D 2012 - 12-SITE MINI CENTRIFUGE

- **Maximum loading capacity** *12 X 12 ml*
- **Maximum speed** *15.000 rpm*
- **Maximum RCF** *15.100 xg*
- **Timer** *from 30 sec to 99 min or continuos*

Extremely compact mini benchtop microcentrifuge, equipped with ultra-quiet induction motor; automatic opening lid, selectable speed and acceleration, "Pulse" function for rapid centrifugation.

Speed: adjustable from 500 to 15,000 rpm in increments of 100 rpm.
RCF: adjustable from 100 to 15,100 xg in increments of 100 xg
Centrifugation time: from 30 seconds to 99 minutes or continuous.

Power supply: 220V, 50-60 Hz. Max. power consumption: 120 W. Max. noise level: 56 dB.

Supplied with:
Ultra-resistant aluminium rotor, equipped with "Bio-Safe" lid model A12-2, for biological safety and fully autoclavable

Nome	Load capacity	Max speed	External dimensions (W x L x H)	Weight	p/n
D 2012 MINICETRIFUGE	12 x 2 ml	15000 rpm	255 x 245 x 140 mm	4,6 Kg	22000012
RI 02-12 REDUCER	For 0.2 ml tubes for A12-2 rotor. Pack of 12 pcs.				22000332
RI 05-12 REDUCER	For 0.5 ml tubes for rotor A12-2. Pack of 12 pcs.				22000342

MULTISPIN 12 ULTRACOMPACT

- **Maximum loading capacity** *6 X2 ml*
- **Max speed** *12000 rpm*
- **Timer** *from 30 sec to 99 min*

Ultra-compact minicentrifuge, equipped with silent induction motor and maintenance free; speed: adjustable from 1000 to 12,000 rpm with steps of 1000 in 1000 rpm.
Power supply: 220V, 50-60 Hz. Max. consumption: 30 W.
Max. noisiness: 45 dB.

Supplied with 2 rotors:
model A 6-2 able to hold simultaneously no. 6 tubes of 2 ml, no. 6 tubes of 0,5 ml, nr. 6 tubes of 0,2 ml;
model PCR 2-8 for no. 2 strips of 8 PCD tubes of 0,2 ml.

Name	Load capacity	Max speed	External dimensions (W x L x H)	Weight	p/n
MULTISPIN 12 MINICENTRIFUGE	6 x 2 ml	12000 rpm	122 x 176 x 196 mm.	1,5 Kg	40005012

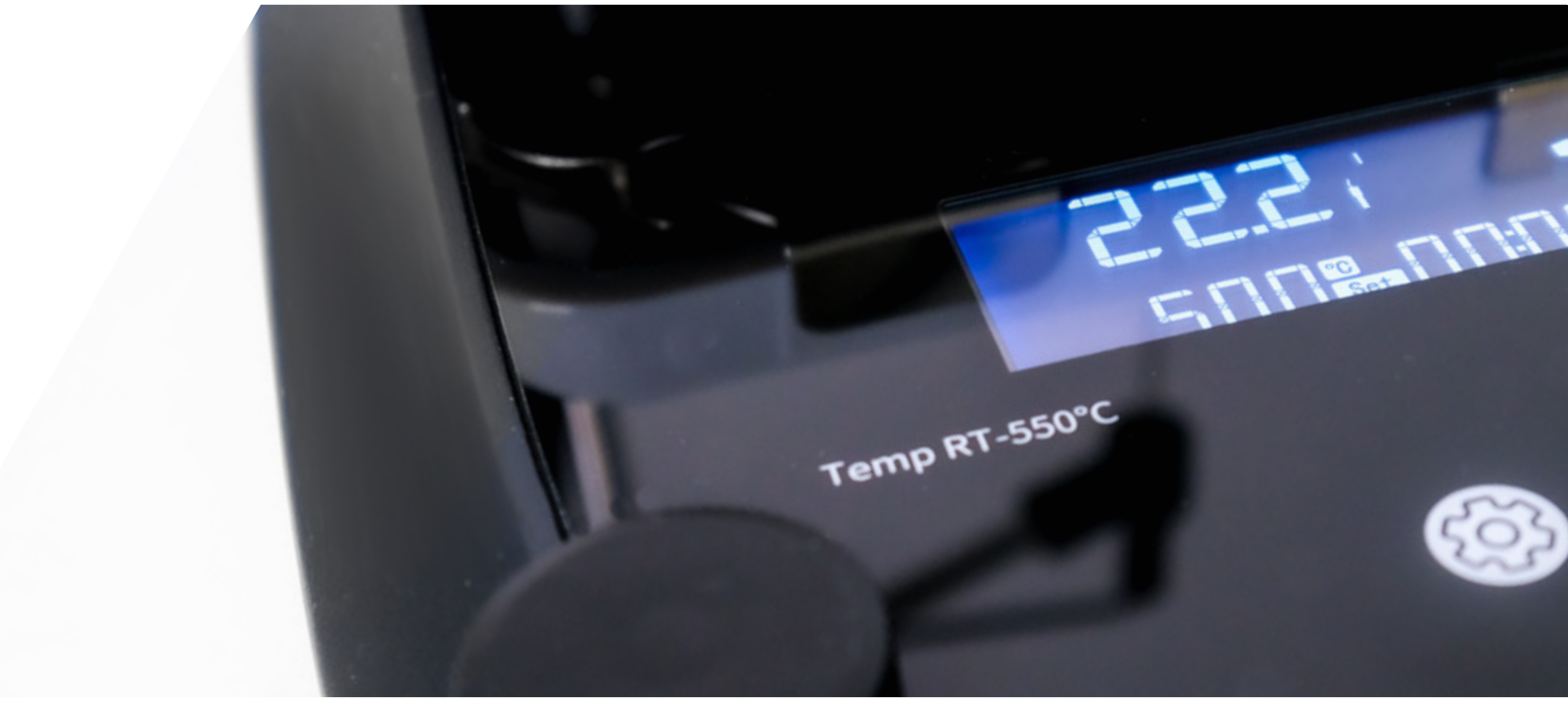
STIRRERS

ARGO LAB

WARRANTY 2 YEARS

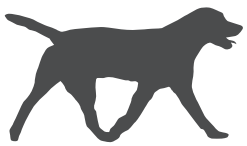
EU Designed

ISO 9001 CERTIFIED



All these tools have passed the rigorous quality and reliability tests that Giorgio Bormac carries out on every new product. The manufacturer, ISO 9001 certified and based in the PRC, has agreed to make the improvements we requested. With this in mind, we have decided to use our brand ARGO LAB.

Argo was the name of our dog, a black Labrador mix, who brightened our days at the office and at home with his strength and loyalty.
That is why we want these tools to become faithful and reliable companions for your laboratory over time.



MS-D

Digital magnetic stirrer
LED display with continuous indication of the stirring speed.
Plate diam. 135 mm in Nylon + GF for excellent chemical resistance.
Maintenance-free induction motor. Degree of protection: IP 42.
Dimensions (LxWxH): 260x150x80mm.

Name	Volume	Speed	p/n
MS-D	3 L	200...1500 rpm	22002003

M2-A

Analogic magnetic stirrer with **heating plate.**
Stainless steel plate with diameter of 135 mm.
Induction motor without maintenance. Degree of protection: IP 42.
Dimensions (LxWxH): 280x160x65mm.

Name	Volume	Speed	T Max heating	Power heating	p/n
M2-A	20 L	0...1500 rpm	340 °C	500 W	22002013

NEW M2-D Pro

Digital magnetic stirrer with heating plate.
Multifunction LCD display with continuous temperature and speed indication.
Control and adjustment of maximum protection temperature with visual alarm on display, HOT WARNING (50°C). TIMER function (99h:59min). OVERHEATING function (420°C).
SAFETY LOCK function to prevent accidental changes to operating settings. Accuracy ±1°C with internal sensor, ±0.2°C with external sensor. 135 mm diameter stainless steel plate with ceramic coating.
Input for PT 1000 external temperature sensor, maintenance-free induction motor.
Protection rating: IP 42. Dimensions (W x L x H): 270 x 175 x 98 mm.

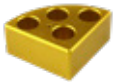
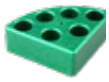
	Name	Volume stirring	Speed stirring	T Max heating	Power heating	p/n
NEW	**M2-D Pro**	20 L	50...1500 rpm	340 °C	650 W	22002073
NEW	**M2-D Pro KIT**		Complete kit with support and PT1000			22002083

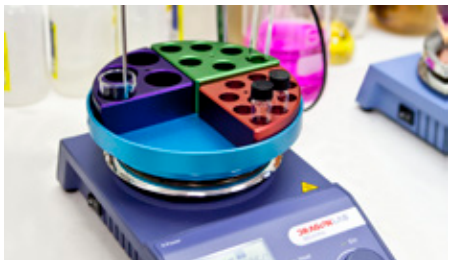
NEW M3-D

Digital magnetic stirrer microprocessor with ceramic glass plate.
LED display with continuous temperature indication.
Accuracy ± 1 °C with internal sensor, ± 0,2 °C with external sensor.
Plate size 184 x 184 mm. **Input for external temperature probe PT 1000.**
Induction motor without maintenance. Degree of protection: IP 21.
Dimensions (W x L x H): 215x360x112mm.

	Name	Volume	Speed	T Max heating	Power heating	p/n
NEW	**M3-D**	20 L	50...1500 rpm	550 °C	1150 W	22003023
NEW	**M3-D Pro KIT**		Complete kit with support and PT1000			22002033

ACCESSORIES FOR MAGNETIC STIRRERS

Description		p/n
Adjustable support for PT 1000		22002523
PT 1000 probe, length 230 mm for stirrer M2-D Pro, M3-D		22002513
Reaction block for 100 ml round bottom flask		22002663
Reaction block for 250 ml round bottom flask		22002673
Reaction block for 500 ml round bottom flask		22002683
Black test tube block 4 holes 40ml Ø 28 mm		22002623
Blue test tube block 4 holes 30ml Ø 28 mm		22002613
Violet test tube block 4 holes 20ml Ø 28 mm		22002603
Gold test tube block 4 holes 16ml Ø 21,6 mm		22002643
Green test tube block 6 holes 8ml Ø 17,8 mm		22002633
Red test tube block 11 holes 4ml Ø 15,2 mm		22002593
Base for insertion of heating blocks		22002583
Plastic protective cover for stirrer M2-A, M2-D Pro, old version		22002533



Example of using the test tube holder

AM 20-D

Mechanical rod stirrer with LED display.
Indicator light for motor lockout due to overheating.
Upper passage hole for stirring rods. IP 42 protection rating. 220V power supply.

Supplied complete with self-locking spindle (max rod Ø 10 mm).
Supplied without universal support (see code 22005153)

Name	Stirring Volume	Speed	Max viscosity	p/n
AM 20-D	20 L	50...2.200 rpm	10000 mPa*s	22005013

NEW AM 50-D Pro

Mechanical shaft stirrer with LCD display.
Effort control with automatic speed adjustment.
Torque indication and motor lock indicator light for overtemperature. Forward, reverse and intermittent stirring. TIMER function (1 min...99 h:59 min); buzzer (end of cycle).
Real-time measurement (optional PT1000 probe, see code 22002523 in the magnetic stirrers section). Upper passage hole for stirring shafts.
IP 42 protection rating. 220V power supply.

Supplied complete with self-locking chuck (max rod Ø 10 mm).
Supplied without universal support (see p/n 22005153).

Name	Stirring Volume	Speed	Max viscosity	p/n
NEW **AM 50-D PRO**	50 L	50...2.200 rpm	50000 mPa*s	22005053

Universal support

Becker holder

ACCESSORIES for AM 20-D and AM 50-D PRO

Description	L	Ø	Breadth	Material	p/n
TYPE 1: Stirring shaft with floating blade	400 mm	8 mm	90 mm	*Stainless steel 316L*	22005193
	350 mm	8 mm	89 mm	*PTFE*	22005333
TYPE 2: Stirring shaft with fixed blade.	400 mm	8 mm	60 mm	*Stainless steel 316L*	22005173
	350 mm	8 mm	70 mm	*PTFE*	22005313
TYPE 3: Stirring shaft with propeller blade.	400 mm	8 mm	50 mm	*Stainless steel 316L*	22005163
	350 mm	8 mm	65 mm	*PTFE*	22005303
TYPE 4: Stirring shaft with 3 holes blade.	400 mm	8 mm	68 mm	*Stainless steel 316L*	22005183
	350 mm	8 mm	68 mm	*PTFE*	22005323
TYPE 5: Anchor stirrer rod shaft.	600 mm	8 mm	100 mm	*Stainless steel 316L*	22005203
TYPE 6:Gear wheel stirrer, rod shaft.	600 mm	8 mm	100 mm	*Stainless steel 316L*	22005213
UNIVERSAL STAND. Complete with clamp Dimensions: base 200 x 315 mm, height 800 mm, diameter 18 mm					22005153
BECKER STAND with velcro strap and overgear chuck.					22005423
CLAMP					22005413

Type 1
Type 2
Type 3
Type 4
Type 5
Type 6

MIX

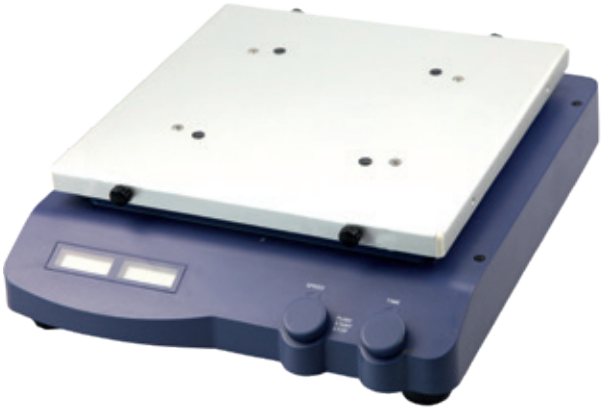
Mixer for test tubes, speed regulation from 0... 2,500 rpm.
Operation by touch or continuously.
Orbital shaking movement.
Eccentric motor with oil-free gears.
Degree of protection IP 21.
Dimensions (W x L x H): 127 x 160 x 130 mm. Weight: 3.5 kg.
220V power supply.

Name	Description	p/n
MIX	Vortex mixer	22008013

ACCESSORIES

Description	p/n
Universal support for Argolab MIX - REQUIRED TO INSTALL THE ADAPTERS	22008103
Adapter for **6 mm tubes - 48 places**	22008113
Adapter for **10 mm tubes - 15 places**	22008153
Adapter for **12 mm tubes - 16 placesi**	22008123
Adapter for **16 mm tubes - 8 places**	22008133
Standard **top cup**	22008143
Platform **pad**	22008163

SKO-D XL



Shaking stirrer.
Double LCD display with indication of speed and time.
Stirring time adjustment from 1min. ...20 hours or continuous.
Exit RS 232 for remote control.
Maintenance-free brushless DC motor.
Plate dimensions: 320 x 320mm.
Overall dimensions (L x W x H): 370 x 420 x 100 mm. Weight: 13,5 Kg.
Protection rating IP 21. Power supply 220V.

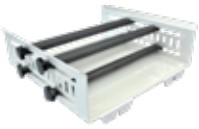
Supplied without any support.

Name	Movement	Max load	Speed	p/n
SKO-D XL ORBITAL	Orbital clockwise and counterwise	7,5 Kg	100...500 hit/min	22006013
SKO-D XL LINEAR	Linear amplitude 10 mm	7,5 Kg	100...350 hit/min	22006033
SKO-D XL 3D	3D clockwise and counterwise	5,0 Kg	10...70 hit/min	22006023

ACCESSORIES

Description	p/n
Support with anti-slip film	22006223
Universal support with 4 adjustable rollers	22006233
Additional bars for universal support	22006553
Drilled support for clips fixing	22006243
Fixing clip for flask volume 25 ml for fixing clip attachment. Max 28 clips	22006453
Fixing clip for flask volume 50 ml for fixing clip attachment. Max 16 clips	22006463
Fixing clip for flask volume 100 ml for fixing clip attachment. Max 16 clips	22006473
Fixing clip for flask volume 200/250 ml for fixing clip attachment. Max 9 clips	22006483
Fixing clip for flask volume 500 ml for fixing clip attachment. Max 9 clips	22006493

Dish attachment with non-slip mat



Universal attachment with 4 bars

Fixing clip attachment

SKI
Shaking Incubators

Bench-top instrument that combines stirring and thermostating functions in a single instrument used for mixing liquids and incubating biological cultures.

The microprocessor control guarantees constant and optimal temperature control within the chamber, the heating pre-chamber (and cooling pre-chamber in the refrigerated model SKI 8-R), together with the forced air circulation ensure the optimal temperature distribution throughout working area.

The easy and intuitive digital display allows to adjust:

-orbital shaking speed with increase of 1 rpm (40 ... 300 rpm);

-operating temperature with sensitivity to one-tenth of a degree (SKI 4 / SKI 8:+ 5°C Ta...+ 60°C /SKI 8 R :+ 4°C ...+ 60°C) ;

-time of use with sensitivity per minute
(from 1 min to 99.59 hours or continuous).

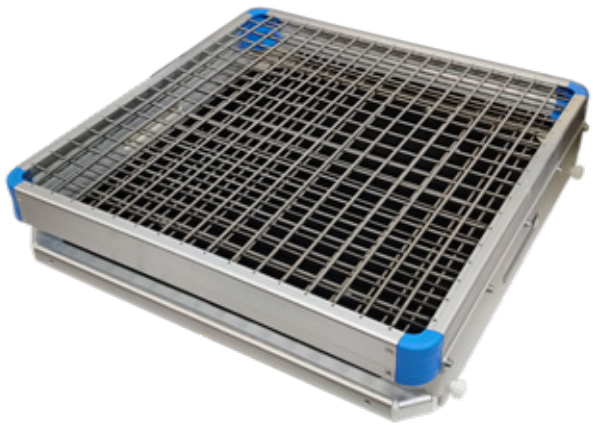
The gradually increasing stirring function up to the set speed ensures **maximum sample safety.**

The **various platforms** available allow maximum versatility of ArgoLab orbital shaking incubators in its SKI 4, SKI 8 and SKI 8-R models.

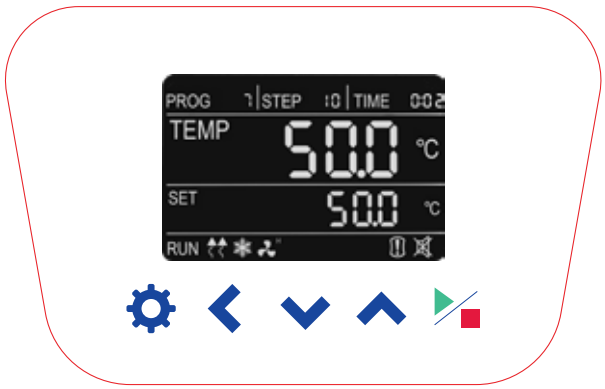
The SKI 4, SKI 8 and SKI 8-R instruments are supplied as standard with a flexible spring platform capable of housing different types of flasks, beakers and test tubes with different capacities; other platforms are also available: perforated for clips, with non-slip film with rubber bands and universal bar platforms.

APPLICATIONS

- Bacterial cultures and yeasts
- Solubility studies
- Extraction procedures
- Mixing
- Coloration and decolorizations
- Hybridisation
- Diagnostic tests
- Washing procedures
- Protein production
- Plasma production
- Biological shaker



Flexible spring platform as standard



Controller

SKI 4

- **Stirring speed:** *40...300 rpm*
- **Temperature range:** *+5°C RT...60 °C*
- **Stirring time:** *1...9999 min (or continuous)*
- **Safety class** *3.1 (DIN 12880)*

Incubator with orbital stirring movement.
Wide backlit LCD display with simultaneous indication of set and actual temperature, stirring speed and time.

Temperature range over time at 37 °C of± 0.1 °C, temperature uniformity in space at 37 °C of± 0.5 °C.
Maximum stirring width of 20 mm.

The instrument can be used also as incubator only (stirring =0), and in stirring mode only (incubation= room temperature).

Universal platform with spring support and useful dimensions 320 x 320 mm suitable for holding beakers, flasks, test tubes and containers of different sizes and shapes, supplied as standard.

Possibility of housing holed support for beaker/flask clips.
Large 8 mm thick plexiglass dome for optimal viewing of samples without heat loss, equipped with gas springs for an easy opening.

Stirring and heating blocking system for dome opening with automatic restart after closing.

Safety systems for overheating protection and adjustable fluid expansion safety thermostat. Safety class 3.1 (DIN 12880).
Maintenance-free induction motor.

Overall dimensions (W x D x H): 500 x 610 x 470 mm. Weight: 40 kg.
Power supply 220V, rated power 500 W.

Supplied with universal support and platform.

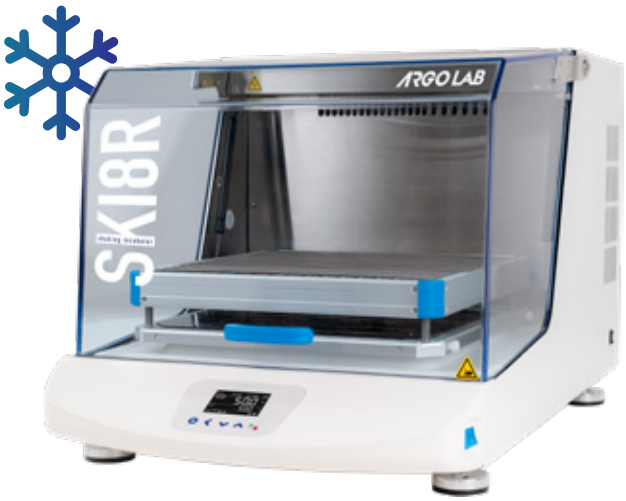
Holed support fixing clips

Name	Max capacity	Temperature range	Plate dimensions	p/n
SKI 4	4 L	+ 5 RT... + 60 °C	320 x 320mm	41202012

ACCESSORIES

Description	p/n
Anti-slip film support for SKI 4 (fixing rubbers included)	41102052
Universal platform with nr. 4 adjustable bars for SKI 4	41102042
Additional bar for universal platform **for SKI 4**	41102062
Holed platform for fixing clips **for SKI 4**	41102112
Spring clips for 100 ml flasks for SKI 4 holed platform. Max. 23 clips	41102132
Spring clips for 200 / 250 ml flasks for SKI 4 holed platform. Max. 13 clips	41102142
Spring clips for 500 ml flasks for SKI 4 holed platform. Max. 8 clips	41102152
Spring clips for 1000 ml flasks for SKI 4 holed platform. Max 4 clips	41102162
Spring clips for 2000 ml flasks for SKI 4 holed platform. Max. 1 clip	41102172

SKI 8 - SKI 8 R



- **Stirring speed:** *40...300 rpm*
- **Stirring time:** *1...99:59 min (or continuous)*
- **Safety class** *3.1 (DIN 12880)*
- **Plate dimension** *450 x 450 mm*

Ventilated (SKI 8) or refrigerated biological incubator (SKI 8R), with orbital stirring.
Wide backlit LCD display with simultaneous indication of set and actual temperature, stirring speed and time.
Temperature variation over time at 37 °C of± 0.1°C, temperature uniformity in space at 37 °C of ± 0.5 °C.
Maximum stirring width of 20 mm.

The instrument can handle both stirring and temperature independently.
Universal spring-loaded platform with useful dimensions 450 x 450 mm suitable for holding beakers, flasks, test tubes and containers of different sizes and shapes, supplied as standard.
Possibility of housing holed support for beaker/flask clips.
Large 8 mm thick plexiglass dome for optimal viewing of samples without heat loss, equipped with gas springs for easy opening.

Stirring and thermostating blocking system for dome opening, with automatic restart after closing.
Safety systems for overheating protection and safety thermostat.
Safety Class 3.1 (DIN 12880).
Maintenance-free induction motor.
Height with open lid 990 mm.
Power supply 220V.

Supplied with universal stand and platform.

Name	Max capacity	Temperature range	Power	Dimensions L x W x H (mm)	Weight Kg	p/n
SKI 8	8 L	+ 5 Rt ... 60 °C	1000 W	610 x 840 x 540 mm	55	41202022
SKI 8 R COOLED	8 L	+ 4 ... + 60 °C	1.300 W	610 x 950 x 540 mm	95	41202032

ACCESSORIES

Description	p/n
Universal platform 4 adjustable bars for SKI 8/ SKI 8 R	41102072
Platform with anti-slip film (rubber bands included) for SKI 8/ SKI 8 R	41102082
Holed platform for fixing clips for SKI 8/ SKI 8 R	41102122
Spring clips for 100 ml flasks for SKI 8/ SKI 8 R holed platform. Max. 36 clips	41102132
Spring clips for 200 / 250 ml flasks for holed platform SKI 8/ SKI 8 R. Max. 18 clips	41102142
Spring clips for 500 ml flasks holed platform SKI 8/ SKI 8 R. Max 16 clips	41102152
Spring clips for 1000 ml flasks for holed platform SKI 8/ SKI 8 R. Max. 9 clips	41102162
Spring clips for 2000 ml flasks for holed platform SKI 8/ SKI 8 R. Max. 4 clips	41102172

ARGO FILLER 3

Battery pipette filler, compatible with most of the plastic and glass pipettes from 1 to 100 ml, volumetric or graduated.
Exceptional aspiration and dispensing control thanks to compact and light design.
Ergonomic design of the handle providing easy usability.
Eight different speeds of selection and large LCD display showing low battery warning.
The knurled handle, the ambidextrous design, the concave buttons and an easy control assure an easy and comfortable use of the operator's hands for many hours.
The fully autoclavable mouth includes a silicone adapter and a 0,45 µm hydrophobic membrane filter.
The kit includes the power supply for the rechargeable batteries and nr. 1 filter.

Name	Description	p/n
ARGO FILLER 3	Pipette filler	15100053
MEMBRANE FILTER SPARE PARTS	Membrane filters, hydrophobic 0,45µm. Kit of 10 pieces	15100573

OZ - OZONE GENERATORS

High power portable air / air Argolab ozonizers for home and professional use, equipped **with multifunction digital timer**, for daily/ weekly programs.
Ozone guarantee the natural inactivation of viruses, bacteria, mites, molds, spores, fungi, parasites and bad smells thanks to his hyper-oxidizing capacity.
Ozone react in a short time, returning O_2 without leaving traces of toxins.

Name	Ozone production	Operation Area	Weight	Dimensions (LxWxH)	p/n
OZ 10	10 g/h	150 m^3/h	4 Kg	380 x 170 x 260 mm	41400103
OZ 30	30 g/h	230 m^3/h	4 Kg	380 x 170 x 260 mm	41400203

THERMOSTATATION

ARGO LAB

WARRANTY 2 YEARS

Save Energy

EU Designed

The ArgoLab instrument line offers advanced solutions for temperature control, combining precision, reliability and ease of use.
Designed to meet the needs of the most demanding laboratories, these instruments incorporate modern features such as intuitive displays, integrated data storage and fast transfer via USB.

Compliance with the strictest regulations, such as Safety Class DIN 12880, ensures the highest level of safety for samples and operators.

Every detail has been developed to simplify daily work: from high quality materials such as stainless steel with rounded corners for easy cleaning, to multi-step programs that allow complex cycles to be handled with great flexibility.
Whether it be ovens, incubators or climatic chambers, ArgoLab offers complete and versatile solutions, ideal for scientific, industrial and research applications.

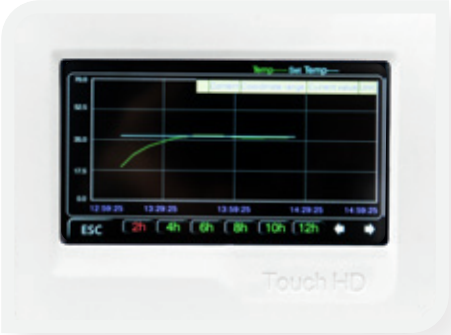
Choosing ArgoLab means investing in instruments that combine technological innovation and environmental sustainability, guaranteeing high performance and reduced environmental impact thanks to latest generation compressors and refrigeration systems.

ArgoLab: the reliable partner for your daily laboratory challenges.

super

4" touchscreen for intuitive and precise management

New touchscreen display of latest generation, designed for intuitive and precise setting management, with smooth navigation and full control of all operating functions.



Graphic display of parameters in real time

Continuous and detailed temperature monitoring, time and program status, with clear graphs for complete data control.

Complete logging and alarm management

Advanced memory that automatically records data and events, with alarm function and operation history for flawless and precise control.

Multi-user access with three security levels

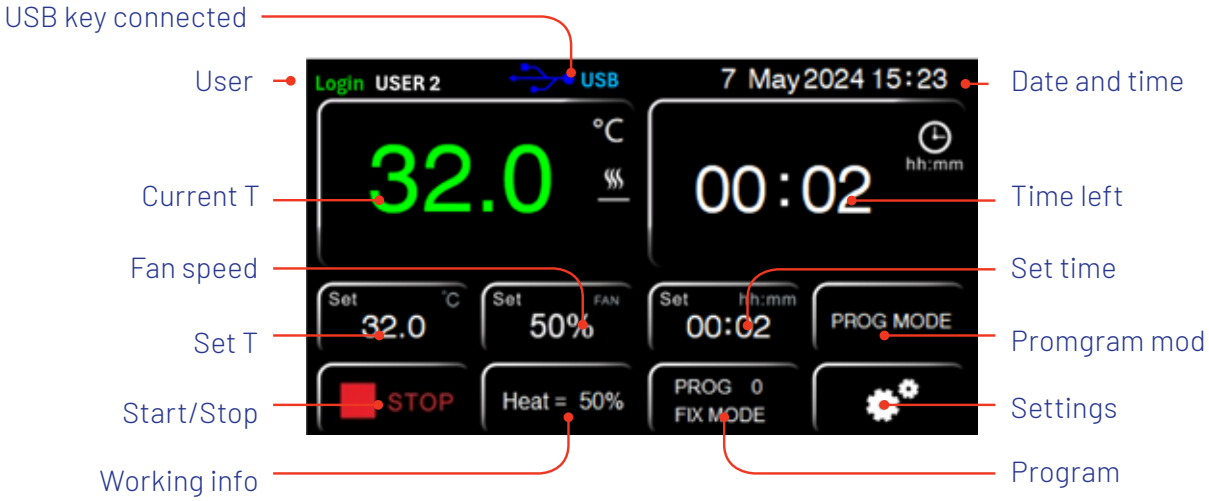
Three authorization levels, all password-protected, to ensure security and control of sensitive parameters and device use in shared environments.

Temperature ramps for complex cycles

Advanced heat cycle management with adjustable temperature ramps, perfect for applications requiring precision and variability.

Internal Storage and Data Transfer via USB

The integrated storage unit ensures continuous storage of operating parameters and over 200,000 process data. The USB port increases the storage capacity and enables fast transfer of the entire archive, including the alarm and operation log, facilitating complete and immediate documentation of activities.



SERIES
Plus

New LCD screen for clear and immediate view

Modern and intuitive display of all essential parameters on one screen: actual and set temperature, fan speed and program status.

Multi-step programming for every need

Managing support up to 64 different temperature steps, offering advanced solutions for any laboratory sequence.

Door switch for safe operations

Door switch for secure loading and unloading operation of samples integrated on all ovens, also perfect for forced-ventilated incubators

Internal memory and USB download for data management

The integrated storage unit ensures continuous storage of operating parameters and process data. The USB port increases the memory and enables fast transfer of the entire data archive, facilitating complete and immediate documentation of activities.

TCN super

- **Working range:** +5 °C RT ... +300 °C
- 4" colour **touchscreen display**
- Real-time **graphic monitoring**
- 10 storable **programs**
- 3-level **multi-user management with password**
- Alarms, operations and **data Logging**
- Direct download on **USB**
- Adjustable **temperature ramps**

It offers a 4-inch **touchscreen display** with simultaneous viewing of all parameters, including real-time graphic monitoring of temperature and program status.

Equipped with visual and acoustic alarms system that can be easily silenced, the oven also includes **advanced user management** with three authorization levels, each password protected, to improve the operating parameters security.

The **programmable digital timer** allows cycles of up to 99 hours and 59 minutes, with the option for continuous operation and delayed start.

A **door switch** facilitates safe loading and unloading of samples, and the **'safe temperature' function** automatically limits the maximum temperature to protect samples at each stage of the cycle.

The oven supports adjustable temperature ramps, ideal for managing complex heat cycles, and offers a complete archiving system that includes alarm, operation and data logs.
All information can be downloaded directly on a USB drive, ensuring advanced documentation and traceability.

Compliant with Safety Class 3.1 (DIN 12880), the oven includes a fluid-expansion maximum temperature controller and an integrated hole (Ø 5 mm) to insert external sensors, ensuring internal temperature control and certification.

A versatile and safe solution, perfect for the most demanding applications.

Stainless steel chamber with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.
Power supply 220± 10% V - 50/60 Hz.

Supplied with
steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and a USB drive for data recording and transfer.

TCN **SUPER** MODELS

Name	Volume (l)	Stability at 150 °C	Homogeneity a 150 (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
TCN 50 SUPER	50	± 0,5	± 3,5	690 x 540 x 635	53	1000	41200502
TCN 115 SUPER	115	± 0,5	± 3,5	815 x 670 x 750	74	1900	41200512
TCN 200 SUPER	200	± 0,7	± 4,0	940 x 730 x 905	103	2100	41200522

TCN **PLUS** MODELS

Name	Volume (l)	Stability at 150 °C	Homogeneity a 150 (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
TCN 30* PLUS	30	± 0,5	± 3,5	460 x 600 x 685	40	700	41200062
TCN 50 PLUS	50	± 0,5	± 3,5	690 x 540 x 635	53	1000	41200002
TCN 115 PLUS	115	± 0,5	± 3,5	815 x 670 x 750	74	1900	41200012
TCN 200 PLUS	200	± 0,7	± 4,0	940 x 730 x 905	103	2100	41200022

*** Working range TCN 30:** *+5°C T RT. ... +200 °C*

TCN *Plus*

- **Working range::** +5 °C RT ... +300 °C
- **Backlit LCD display**
- 10 storable **programs**
- **Data Logging**
- Direct download on **USB**

The ArgoLab PLUS version oven offers a black **backlit LCD display** that allows simultaneous viewing of all main parameters, including actual and set temperature.

Equipped with a visual and acoustic alarm system that can be easily silenced, the oven also includes a USB* port for data download.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start.

A door switch* facilitates safe loading and unloading of samples, and the 'safe temperature' function automatically limits the maximum temperature to protect samples at each stage of the cycle.

The data storage system* is complete and supports direct download to a USB drive, ensuring simple and secure data management.

Compliant with Safety Class 3.1 (DIN 12880), the oven includes a fluid-expansion maximum temperature controller and an **integrated hole (Ø 5 mm)** to insert external sensors, ensuring internal temperature control and certification.

A versatile and safe solution, perfect for the most demanding applications.

Stainless steel chamber with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.
Power supply 220± 10% V - 50/60 Hz.

Supplied with:
steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and USB drive for data recording and transfer..

*not available on TCN 30

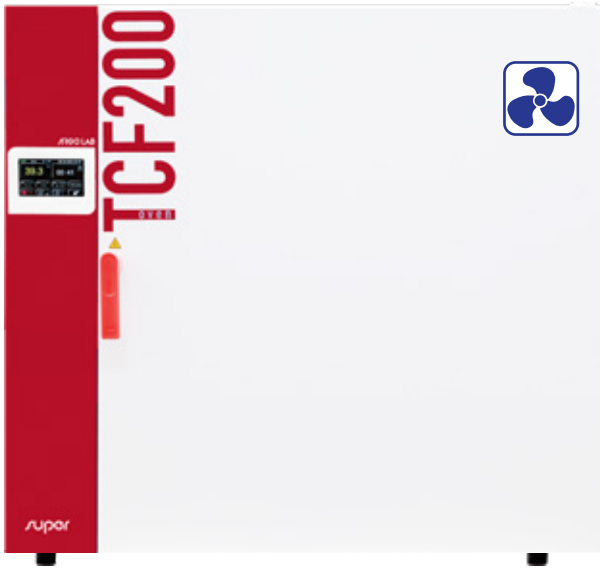
TCN **ACCESSORIES** (SUPER and PLUS)

Description	Picture	p/n
Steel wire shelf for TCN 30		41100142
Steel wire shelf for TCN 50		41100102
Steel wire shelf for TCN 115		41100112
Steel wire shelf for r TCN 200		41100122
Steel holed platform TCN 30		41100192
Steel holed platform TCN 50		41100152
Steel holed platform TCN 115		41100162
Steel holed platform TCN 200		41100172
Ø 25 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110152
Ø 50 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110142
Wheels for TCN 200. Set of 4 pieces		41101172
ArgoLab IQ-OQ manual		41119002

Thermostatation

TCF super

- **Working range:** +10 °C RT ... +300 °C
- 4" colour **touchscreen display**
- Real-time **graphic monitoring**
- 10 storable **programs**
- 3-level **multi-user management with password**
- Alarms, operations and **data Logging**
- Direct download on **USB**
- Adjustable **temperature ramps**



It offers a 4-inch touchscreen display with simultaneous viewing of all parameters, including **real-time graphic monitoring** of temperature and program status.

Equipped with **visual and acoustic alarms** system that can be easily silenced, the oven also includes **advanced user management** with three authorization levels, each password protected, to improve the operating parameters security.

Ventilation adjustable at 3 intensity levels: High, Medium, Low.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start.

A door switch facilitates safe loading and unloading of samples, and the **'safe temperature' function** automatically limits the maximum temperature to protect samples at each stage of the cycle.

The oven supports adjustable **temperature ramps**, ideal for managing complex heat cycles, and offers a complete archiving system that includes alarm, operation and data logs.
All information can be **downloaded directly on a USB drive**, ensuring advanced documentation and traceability.

Compliant with Safety Class 3.1 (DIN 12880), the oven includes a fluid-expansion maximum temperature controller and an **integrated hole (Ø 5 mm)** to insert external sensors, ensuring internal temperature control and certification. A versatile and safe solution, perfect for the most demanding applications

Stainless steel chamber with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.
Power supply 220± 10% V - 50/60 Hz.

Supplied with

steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and a USB drive for data recording and transfer.

TCF **SUPER** MODELS

Name	Volume (l)	Stability at 150 °C	Homogeneity at 150 (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
TCF 50 SUPER	50	± 0,3	± 2%	690 x 640 x 635	54	980	41200602
TCF 120 SUPER	120	± 0,3	± 2%	810 x 760 x 750	74	1900	41200612
TCF 200 SUPER	200	± 0,4	± 2%	945 x 825 x 870	103	2400	41200622
TCF 400 SUPER	400	± 0,5	± 2%	1285 x 820 x 1060	160	3200	41200632

TCF **PLUS** MODELS

Name	Volume (l)	Stability at 150 °C	Homogeneity at 150 (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
TCF 50 PLUS	50	± 0,3	± 2%	690 x 640 x 635	54	980	41200202
TCF 120 PLUS	120	± 0,3	± 2%	810 x 760 x 750	74	1900	41200212
TCF 200 PLUS	200	± 0,4	± 2%	945 x 825 x 870	103	2400	41200222
TCF 400 PLUS	400	± 0,5	± 2%	1285 x 820 x 1060	160	3200	41200232

TCF Plus

- Working range:: +10 °C RT ... +300 °C
- Backlit LCD display
- 10 storable programs
- Data Logging
- Direct download on USB

The ArgoLab PLUS version oven offers a **black backlit LCD display** that allows simultaneous viewing of all main parameters, including actual and set temperature.

Equipped with a **visual and acoustic alarm** system that can be easily silenced, the oven also includes a **USB port for data download**

Ventilation adjustable at 3 intensity levels: High, Medium, Low.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start.
A **door switch** facilitates safe loading and unloading of samples, and the **'safe temperature' function** automatically limits the maximum temperature to protect samples at each stage of the cycle.

The data storage system is complete and supports direct **download to a USB drive**, ensuring simple and secure data management.

Compliant with Safety Class 3.1 (DIN 12880), the oven includes a fluid-expansion maximum temperature controller and an **integrated hole (Ø 5 mm)** to insert external sensors, ensuring internal temperature control and certification.
A versatile and safe solution, perfect for the most demanding applications.

Stainless steel chamber with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.

Power supply 220± 10% V - 50/60 Hz.

Supplied with:
steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and USB drive for data recording and transfer

Thermostatation

TCF **ACCESSORIES** (SUPER and PLUS)

Description	Picture	p/n
Steel wire shelf for TCF 50		41100102
Steel wire shelf for TCF 120		41100112
Steel wire shelf for TCF 200		41100122
Steel wire shelf for r TCF 400		41100132
Steel holed platform TCF 50		41100152
Steel holed platform TCF 120		41100162
Steel holed platform TCF 200		41100172
Steel holed platform TCF 400		41100182
Ø 25 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110152
Ø 50 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110142
Wheels for TCF 200 and TCF 400. Set of 4 pieces		41101172
ArgoLab IQ-OQ manual		41119002

ICN super

- **Working range:** +5 °C RT ... +70 °C
- 4" colour **touchscreen display**
- Real-time **graphic monitoring**
- 10 storable **programs**
- 3-level **multi-user management with password**
- Alarms, operations and **data Logging**
- Direct download on **USB**
- Adjustable **temperature ramps**

The ArgoLab natural convection incubator SUPER version is equipped with a 4-inch touchscreen display that allows simultaneous viewing of all operating parameters, including **real-time graphic monitoring** of temperature and program status.
The visual and acoustic alarm system can be easily silenced, while **advanced user management** provides three password-protected authorization levels to ensure maximum security on operating parameters.

The instrument meets safety class 2 (DIN 12880).

The incubator supports adjustable **temperature ramps**, ideal for managing complex heat cycles, and offers a complete archiving system that includes alarm, operation and data logs. **All information can be downloaded directly on a USB drive**, ensuring advanced documentation and traceability.
For greater versatility, the incubator includes an **integrated hole (Ø 5 mm)** to insert external sensors, ensuring internal temperature control and certification.

The chamber is made of stainless steel with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.

To observe the samples without heat loss, the ICN 16 and ICN 35 models are equipped with a large glass window on the door, while the remaining models include a double door (with an internal glass door).

Power supply: 220± 10% V - 50/60 Hz.

Supplied with:
steel wire shelves (2 shelves for models up to 55 liters, 3 shelves for higher models), calibration report at 37 °C performed with an Accredia-referable instrument and USB drive for data recording and transfer.

ICN **SUPER** MODELS

Name	Volume (l)	Stability at 37 °C	Homogeneity at 37 °C	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
ICN 16 SUPER	16	± 0,3	± 0,4	530 x 450 x 370	23	85	41201302
ICN 35 SUPER	35	± 0,3	± 0,4	620 x 510 x 440	33	125	41201312
ICN 55 SUPER	55	± 0,3	± 0,5	660 x 600 x 500	42	250	41201322
ICN 120 SUPER	120	± 0,3	± 0,5	780 x 700 x 610	61	350	41201332
ICN 200 SUPER	200	± 0,3	± 0,5	875 x 760 x 755	77	600	41201342

ICN **PLUS** MODELS

Name	Volume (l)	Stability at 37 °C	Homogeneity at 37 °C	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
ICN 16 PLUS	16	± 0,3	± 0,4	530 x 450 x 370	23	85	41201002
ICN 35 PLUS	35	± 0,3	± 0,4	620 x 510 x 440	33	125	41201012
ICN 55 PLUS	55	± 0,3	± 0,5	660 x 600 x 500	42	250	41201022
ICN 120 PLUS	120	± 0,3	± 0,5	780 x 700 x 610	61	350	41201032
ICN 200 PLUS	200	± 0,3	± 0,5	875 x 760 x 755	77	600	41201042

ICN *Plus*

- Working range: +5 °C RT... +70 °C
- Backlit LCD display
- 10 storable programs
- Data Logging
- Direct download on USB

The ArgoLab PLUS version incubator offers a **black backlit LCD** display that allows simultaneous viewing of all main parameters, including actual and set temperature.

Equipped with a **visual and acoustic alarm** system that can be easily silenced, the incubator also includes a **USB port for data download.**

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start.

A **door switch** facilitates safe loading and unloading of samples, and the **'safe temperature' function** automatically limits the maximum temperature to protect samples at each stage of the cycle.

The data storage system is complete and supports **direct download to a USB drive**, ensuring simple and secure data management.

Compliant with Safety Class 2 (DIN 12880), the incubator includes an **integrated hole (Ø 5 mm)** to insert external sensors, ensuring internal temperature control and certification.

Observation of samples without heat loss: the ICN 16 and ICN 35 models are equipped with a large glass window on the door to monitor samples without affecting the internal temperature.
The remaining models are equipped with a double door (with an internal glass door) for the same purpose.

The chamber is made of stainless steel with rounded corners, and the anti-tip supports and shelves are fully removable for easy and thorough cleaning.

Power supply: 220± 10% V - 50/60 Hz.

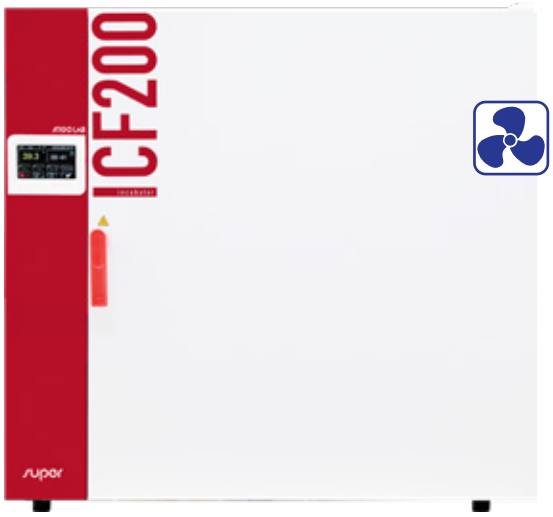
Supplied with:
steel wire shelves (2 shelves for models up to 55 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and USB drive for data recording and transfer

ICN **ACCESSORIES** (SUPER and PLUS)

Description	Picture	p/n
Steel wire shelf for **ICN 16**		41101112
Steel wire shelf for **ICN 35**		41101122
Steel wire shelf for **ICN 55**		41101132
Steel wire shelf for **ICN 120**		41101142
Steel wire shelf for **ICN 200**		41101152
Wheels for ICN 200. Kit of 4 pieces		41101172
ArgoLab IQ-OQ manual		41119002

ICF super

- **Working range:** +5 °C RT ... +80 °C
- **Sterilization program at 130 °C**
- 4" colour **touchscreen display**
- Real-time **graphic monitoring**
- 10 storable **programs**
- 3-level **multi-user management with password**
- Alarms, operations and **data Logging**
- Direct download on **USB**
- Adjustable **temperature ramps**



The ArgoLab forced air circulation incubator SUPER version is equipped with a 4-inch touchscreen display that allows simultaneous viewing of all operating parameters, including **real-time graphic monitoring** of temperature and program status.
The visual and acoustic alarm system is easily silenced, while **advanced user management** provides three password-protected authorization levels to ensure maximum security on operating parameters.

Ventilation adjustable at 3 levels: High, Medium, Low.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start, and the '**safe temperature' function** automatically limits the maximum temperature to protect samples at each stage of the cycle.

Compliant with Safety Class 3.1 (DIN 12880), the incubator includes a fluid-expansion maximum temperature controller and an **integrated hole (Ø 5 mm)** to insert external sensors, ensuring internal temperature control and certification.

A versatile and safe solution, perfect for the most demanding applications.

The incubator supports adjustable **temperature ramps**, ideal for managing complex heat cycles, and offers a complete archiving system that includes alarm, operations and data logs.
All information can be downloaded directly on a USB drive, ensuring documentation and advanced traceability.

The chamber is made of stainless steel with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.

To observe the samples without heat loss, the models have a double door (with an internal glass door).

Power supply: 220± 10% V - 50/60 Hz

Supplied with:
steel wire shelves (2 shelves for models up to 55 liters,
3 shelves for higher models), calibration report at 37 °C performed with an Accredia-referable instrument and a USB drive for data recording and download.

ICF **SUPER** MODELS

Name	Volume (l)	Stability at 37 °C	Homogeneity at 37 °C	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
ICF 55 SUPER	57	± 0,1	± 0,3	690 x 620 x 650	56	350	41200902
ICF 120 SUPER	120	± 0,1	± 0,4	810 x 760 x 750	74	600	41200912
ICF 200 SUPER	200	± 0,2	± 0,4	945 x 825 x 870	103	700	41200922
ICF 400 SUPER	400	± 0,3	± 0,5	1285 x 820 x 1060	160	1500	41200932

ICF **PLUS** MODELS

Name	Volume (l)	Stability at 37 °C	Homogeneity at 37 °C	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
ICF 55 PLUS	57	± 0,1	± 0,3	690 x 620 x 650	56	350	41200802
ICF 120 PLUS	120	± 0,1	± 0,4	810 x 760 x 750	74	600	41200812
ICF 200 PLUS	200	± 0,2	± 0,4	945 x 825 x 870	103	700	41200822
ICF 400 PLUS	400	± 0,3	± 0,5	1285 x 820 x 1060	160	1500	41200832

ICF *Plus*

- Working range: *+5 °C RT... +80 °C*
- Sterilization program at 130 °C
- Backlit LCD display
- 10 storable programs
- Data recording
- Direct download on **USB**

The ArgoLab PLUS version incubator is equipped with a black backlit LCD display that allows simultaneous viewing of all main parameters, including actual and set temperature.
The visual and acoustic alarm system is easily silenced, and the incubator includes a **USB port for data download**.

Ventilation adjustable at 3 levels: High, Medium, Low.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start.
A **door switch** facilitates safe loading and unloading of samples, and the **'safe temperature' function** automatically limits the maximum temperature to protect samples at each stage of the cycle.

Compliant with Safety Class 3.1 (DIN 12880), the incubator includes a fluid-expansion maximum temperature controller and an **integrated hole (Ø 5 mm)** to insert external sensors, ensuring internal temperature control and certification.

A versatile and safe solution, perfect for the most demanding applications.
The data storage system is complete and supports **direct download on a USB drive** for simple and secure data management.
To observe the samples without heat loss, the models have a double door (with an internal glass door).

The chamber is made of stainless steel with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.

Power supply: 220± 10% V - 50/60 Hz.

Supplied with:
steel wire shelves (2 shelves for models up to 55 liters, 3 shelves for larger models), calibration report at 37 °C performed with an Accredia-referable instrument, and USB drive for data recording and download.

ICF **ACCESSORIES** (SUPER and PLUS)

Description	p/n
Steel wire shelf for **ICF 55**	41100102
Steel wire shelf for **ICF 120**	41100112
Steel wire shelf for **ICF 200**	41100122
Steel wire shelf for **ICF 400**	41100132
Holed platform for **ICF 55**	41100152
Holed platform for **ICF 120**	41100162
Holed platform for **ICF 200**	41100172
Holed platform for **ICF 400**	41100182
Ø 25 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)	41110152
Ø 50 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)	41110142
Wheels for ICF 200 and ICF 400. Kit of 4 pieces	41101172
ArgoLab IQ-OQ manual	41119002

IC 150-R

- **Working range:** *0 ... +60 °C*
- **Usable Volume** *150 litres*
- Large 7" high-contrast **touchscreen display**
- **Real-time** graphic display
- **Data, alarms and operations logging**
- Downloading data on **USB in CSV/PDF**
- **3-level user management** with safe access
- 25 mm **side through-hole**

The ArgoLab IC 150-R refrigerated incubator is equipped with a steel external door with a large glass window and interior light, **ideal to observe the samples without heat loss.**

Thanks to the redesigned user interface and high-contrast **7-inch touchscreen display**, the user can count on optimal view in all conditions and precise, intuitive control of all parameters.

The incubator supports **data logging of up to 200,000 events**, downloadable via USB drive in CSV or PDF format, ensuring easy analysis. The display and download function includes a 'search' command for quick access to historical data, while an advanced logging and alarm/operation history system allows to monitor and record critical events and operations.

Thanks to the graphic display directly on the screen, changes in temperature and other parameters can be monitored in **real time**, supported by the multi-step program, which allows up to **64 consecutive steps to be stored, ideal for complex processes.**
For greater flexibility, the incubator allows the configuration of **temperature ramps** and offers the possibility to choose the unit of measurement between °C and °F.

Operational safety is guaranteed by **Safety Class 3.1 (DIN 12880)**, which includes a fluid expansion maximum temperature controller. The incubator is also equipped with a **lateral 25 mm passage hole** to insert one or more external sensors, useful for monitoring and certifying the internal temperature.

User management is multi-level, with three configurable access levels (user, manager, admin), for safe customization of operating parameters.

The incubator offers a digital timer programmable from 1 minute up to 99 hours and 59 minutes, with the option for continuous operation and delayed start.

The '**safe temperature**' function automatically limits the maximum temperature to protect samples during all working operations. The inner chamber is made of **stainless steel** with rounded corners, equipped with anti-tip shelves and fully removable supports for easy and thorough cleaning.

The power supply is 220± 10% V at 50 Hz.
Three levels adjustable ventilation: High, Medium, Low.

Supplied with:
Three steel wire shelves, a calibration report at 25°C performed with an Accredia-referable instrument and a USB drive for data.

Name	Volume (l)	Stability at 150 °C	Homogeneity at 150 (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
IC 150-R PLUS	150	± 0,1	± 0,5	650 x 620 x 1350	100	1100	41201512

ACCESSORIES IC 150-R

Description	p/n
Steel wire shelf for **IC 150-R**	41101562
Manual **IQ-OQ**	41119002

IC 50-P PELTIER INCUBATOR

- **Working range:** *0 ... +60 °C - (* at least 20°C below room T)*
- **Peltier technology**
- **Usable Volume** *50 litres*
- Large 7" high-contrast **touchscreen display**
- **Real-time** graphic display
- **Data, alarms and operations logging**
- Downloading data on **USB in CSV/PDF**
- **3-level user management** with safe access

The refrigerated incubator with **Peltier cell** technology ArgoLab IC 50-P is equipped with a double door, with an internal glass door, ideal for observing samples without heat loss.

Thanks to the **redesigned user interface and high-contrast 7-inch touchscreen display**, the user can count on optimal view in all conditions and precise, intuitive control of all parameters.

The incubator supports **data logging of up to 200,000 events**, downloadable via USB drive in **CSV or PDF** format, ensuring easy analysis.

The display and download function include a 'search' command for quick access to historical data, while an advanced **logging and alarm/operation history** system allows
to monitor and record critical events and operations. Thanks to the **graphic** display directly on the screen, changes in temperature and other parameters can be monitored in real time, supported by the multi-step program, which allows up to 64 consecutive steps to be stored, ideal for complex processes.

For greater flexibility, the incubator allows the configuration of **temperature ramps** and offers the possibility to choose the unit of measurement between °C and °F.

Operational safety are guaranteed by **Safety Class 3.1 (DIN 12880)**, which includes a fluid-expansion maximum temperature controller.

User management is multi-level, with **three configurable access levels (user, manager, admin)**, for safe customization of operating parameters.
The incubator is equipped with a **door switch**, which facilitates the loading and unloading of samples.

The **'safe temperature'** function automatically limits the maximum temperature to protect samples during all working operations. The inner chamber is made of **stainless steel** with rounded corners, equipped with **two anti-tip shelves** and fully removable supports for easy and thorough cleaning.

The power supply is 220± 10% V at 50 Hz.
Fixed ventilation.

Supplied with:
two steel wire shelves, calibration report at 25°C performed with an Accredia-referable instrument and a USB stick for recording and data download.

Name	Volume (l)	Stability at 150 °C	Homogeneity at 150 (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
IC 50-P	50	± 0,1	± 0,5	550 x 600 x 700	58	500	41202402

ACCESSORIES IC 50-P

Description	p/n
Steel wire shelf for **IC 50-P**	41101572
Manual **IQ-OQ**	41119002

CH 150 CLIMATIC CHAMBERS

- **Working range RH:** *+45... +95 % RH*
- **Working range with humidity:** *+10 ... 70 °C*
- **Working range without humidity:** *0 ... +85 °C*
- 7" high-contrast **touchscreen display**
- **Real-time** graphic display
- **Data, alarms and operations logging**
- Data download on **USB in CSV/PDF**
- **5 access-level user management**

The ArgoLab climatic chamber is equipped with a large, high-contrast **7-inch touchscreen display**, which ensures a modern and always clearly visible interface. The new, completely redesigned user interface makes operation intuitive and immediate, allowing quick access to all operating parameters.

The extended operating **range of 45% RH to 95% RH** allows a wide range of application requirements to be met. Parameters monitoring is made more effective by the real-time **graphic display directly on the screen.**

Data management is simple and advanced: the **data logging system** can store up to 200,000 events, with optional
download via **USB port in CSV or PDF** format for in-depth analysis. The smart data-downloading function with 'search' command allows targeted access to stored data, while the new program configuration includes the option to create multi-step sequences and temperature/humidity ramps, optimal for advanced applications.

Multi-level user management includes **5 authorization levels**, ensuring safe and customized control for each operator.

The interior of the chamber is made of **stainless steel** with rounded corners, ensuring easy cleaning and maintaining high resistance to wear.

The **optimized ventilation system** ensures an even distribution of temperature and humidity, providing stability and accuracy in every part of the chamber.

The external steel door, equipped with a large glass window and manually activated **LED light**, allows the samples to be monitored without altering the internal environment.

The chamber meets **Safety Class 3.1 (DIN 12880)** thanks to a fluid-expansion maximum temperature controller, ensuring maximum protection of samples.

The chamber is equipped with a compact **external water tank** that is easily accessible through an ergonomic screw cap. In addition, a lateral **25 mm hole** with a **silicone plug** has been added to facilitate the passage of probes or cables, increasing the versatility of the instrument.

The power supply is 220± 10% V at 50 Hz.

Supplied with:
three steel wire shelves, feed tray.

Climatic chambers are delivered after being thoroughly tested.

Name	Volume (l)	External dimensions LxWxH (mm)	Weight (kg)	p/n
CH 150	150	690 x 790 x 1520	145	41201412

ACCESSORIES CH 150

Description	p/n
Steel wire shelf for **CH 150**	41101462
Manual **IQ-OQ**	41119002

CH 250 CLIMATIC CHAMBERS

- **Working range RH:** *+45... +95 % RH*
- **Working range with humidity:** *+10 ... 70 °C*
- **Working range without humidity:** *0 ... +85 °C*
- 7" high-contrast **touchscreen display**
- **Real-time** graphic display
- **Data, alarms and operations logging**
- Data download on **USB in CSV/PDF**
- **5 access-level user management**

Menu setup

Screen

The ArgoLab climatic chamber is equipped with a large, high-contrast **7-inch touchscreen display**, which ensures a modern and always clearly visible interface. The new, completely redesigned user interface makes operation intuitive and immediate, allowing quick access to all operating parameters.

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The external steel door, equipped with a large glass window and manually activated **LED light**, allows the samples to be monitored without altering the internal environment.

The chamber meets **Safety Class 3.1 (DIN 12880)** thanks to a fluid-expansion maximum temperature controller, ensuring maximum protection of samples.

The chamber is equipped with a compact **external water tank** that is easily accessible through an ergonomic screw cap. In addition, a lateral **25 mm hole** with a **silicone plug** has been added to facilitate the passage of probes or cables, increasing the versatility of the instrument.

The power supply is 220± 10% V at 50 Hz.

Supplied with:
three steel wire shelves, feed tray.

Climatic chambers are delivered after being thoroughly tested.

Name	Volume (l)	External dimensions LxWxH (mm)	Weight (kg)	p/n
CH 250	250	740 x 885 x 1680	185	41201422

ACCESSORIES CH 250

Description	p/n
Steel wire shelf for **CH 250**	41101472
Manual **IQ-OQ**	41119002

NEW RV-5A ROTARY EVAPORATOR

- **Wide rotation** range 20-300 rpm
- Digital **speed and temperature control**
- **Motorised column** for automatic height adjustment
- Water or oil **bath up to 180°C, 5 litres**, PTFE-coated
- Minimum **vacuum 8 mbar**
- **Safety alarm**s for overtemperature
- PTFE seals with **high vacuum tightness**

The **RV-5A** rotary evaporator is designed to offer high performance and ease of use in research, quality control and production laboratories.

With its motorised lift, intuitive LCD **display and precise speed and temperature control**, the RV-5A ensures efficient, safe and repeatable distillation processes.

Ideal for applications in the **pharmaceutical, chemical, cosmetic, food and academic sectors**, the RV-5A represents the new generation of vacuum evaporation instruments.

The evaporation rate of up to **22 ml/min** ensures fast processing times and consistent results. **The adjustable rotation speed from 20 to 300 rpm and the minimum vacuum of 8 mbar** allow for gentle distillation even of high-boiling solvents, preserving the properties of the most sensitive substances.

Available in two versions:
- **Water bath** (+ 5°C Ta ... T max 99 °C) for gentle evaporation.
- **Oil bath** (+ 5°C Ta... T max 180 °C) for high boiling point solvents.

Both the oil bath and the water bath comply with Safety Class 3.1 (DIN 12880) thanks to the maximum temperature limiter with fluid expansion (adjustable in the oil bath, fixed in the water bath).

	Name	Bath	Working range	RPM	Lifting	Maximum vacuum	Dimensions (mm)	p/n
NEW	**RV-5A**	Water	+5°C Ta ... 99°C	20 ... 300	Automatica	8 mbar	ø 230 × 130	**41203012**
NEW	**RV-5A**	Oil	+5°C Ta ... 180°C	20 ... 300	Automatica	8 mbar	ø 230 × 130	**41203022**

NEW C3-20 CHILLER

Compact, quiet and high-performance, the C3-20 is the ideal refrigerated thermostat for ensuring constant and efficient cooling of the condenser during distillation.

The adjustable temperature range from -20 °C to +20 °C and the 6 L/min circulation pump ensure a continuous and uniform flow of the refrigerant fluid.

Designed to operate quietly, safely and reliably, the C3-20 is the perfect solution for optimising system efficiency, energy consumption and safety

	Name	Volume (l)	Temperature range	Max head (m)	Flow rate (l/min)	Cooling capacity at 10°C (W)	Power (W)	p/n
NEW	C3-20	5	-20° ... 20°C	9	6	530	550	41203112

NEW VP-20 VACUUM PUMP

Reliable, quiet and durable:
The VP-20 membrane pump is the ideal complement to your evaporation system.

Made with a PTFE head and diaphragm, it guarantees maximum resistance to chemically aggressive solvents and ensures a stable vacuum of up to 8 mbar, perfect for rapid and controlled distillation. Thanks to the Clean/Dry valve, it keeps the system efficient and dry at all times.

Designed for continuous and quiet operation, the VP-20 combines professional performance and ease of use,ensuring repeatable results and a long operating life

	Name	Flow rate (l/min)	Final pressure (mbar)	Speed (rpm)	Wetted material	Power (W)	p/n
NEW	VP-20	20	8	1450	PTFE, FFPM	120	41203152

NEW VC-50 VACUUM REGULATOR

Digital accuracy and complete process control.

The VC-50 is a new generation vacuum control unit equipped with a highly sensitive capacitive ceramic sensor to ensure accurate and reliable measurements at all times.

The intuitive LCD touchscreen display allows you to easily manage the process in automatic or manual mode, while the programmable solenoid valve control precisely regulates the desired pressure during each stage of distillation.

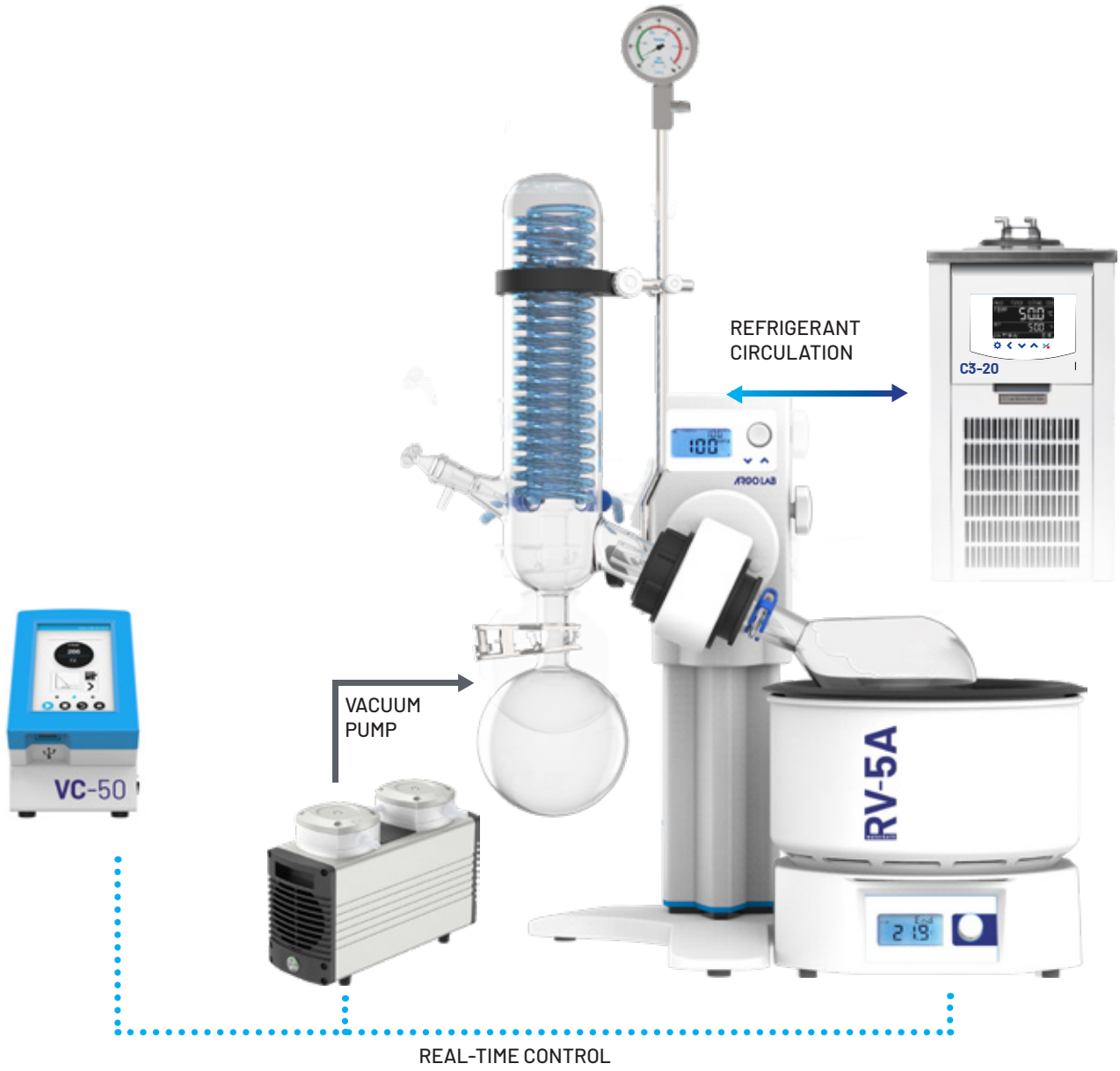
	Name	Connection diameter (mm)	Inlet pressure (mbar)	Type of vacuum sensor	Control range (mbar)	Display	p/n
NEW	VC-50	8, PTFE	1 ... 1066	Ceramic	1 ... 1013	LCD	41203162

COMPLETE KIT FOR EVAPORATION PROCESSES

Integrated solution for efficient and professional management of evaporation processes.

The KIT includes a rotary evaporator, chiller, vacuum pump and vacuum regulator, perfectly coordinated to ensure precise control, operational reliability and maximum efficiency. Ideal for laboratories that require high performance and a complete, ready-to-use configuration.

Name	Bath	Chiller	Vacuum pump	Vacuum regulator	p/n
RV-5A KIT	Water	C3-20	VP-20	VC-50	41203032
	Oil	C3-20	VP-20	VC-50	41203042



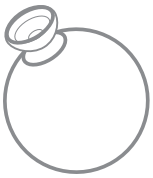
STANDARD **GLASSWARE** AND FLEXIBILITY FOR EVERY NEED

The new RV-5A rotary evaporator is supplied with a 1000 ml evaporating flask (NS 29/32 conical joint) and a 1000 ml receiving flask (KS 35 spherical joint), ideal for most laboratory applications.
This configuration ensures an efficient, stable and ready-to-use setup, fully operational from the start.
To meet more specific requirements, a wide range of alternative sizes and volumes of evaporation and receiving flasks are also available, ensuring maximum versatility even in the most complex contexts.

EVAPORATING FLASK
(NS 29/32)

	p/n
50 ml	41203312
100 ml	41203322
250 ml	41203332
500 ml	41203342
1000 ml	41203352
2000 ml	41203362

RECEIVING FLASK
(KS 35)



	p/n
1000 ml	41203212
100 ml	41203222
250 ml	41203232
500 ml	41203242
2000 ml	41203252

ACCESSORIES AND SPARE PARTS

	p/n
OIL BATH FOR RV-5A	41203622
LID FOR BATH	41203632
MAIN SEAL	41203732
SECONDARY SEAL	41203742
GLASS AXIS NS 29/32	41203752
10 MM ANGULAR RUBBER HOLDER	41203642

CB 5 SERIES CIRCULATING WATERBATH

- **Working range:** *-30 / -20 / -10 ... +100 °C*
- **Usable volume:** *5 litres*
- **PT100 Probe** for external circuit temperature control
- **Backlit LED display**

Argolab circulating waterbath. Simultaneous display of set temperature, actual temperature and all other operating parameters.

Visual and acoustic alarms that can be silenced by the operator.
Digital timer with programming range 1 min - 99 h 59 min. and continuous operation.

Safe temperature function: working temperature limitation for sample protection.
Safety Class 3 (DIN 12880).

Simultaneous circulation of the fluid inside and outside the tank for better conditions of stability and thermal inertia.

Automatic reading of the external circuit temperature by connecting the supplied PT100 probe.
Functional tap to exclude external circulation for an easy cleaning and maintenance.

Safety system for lack of liquid inside. Stainless steel inner tank with lid, easily accessible.

Power supply: 220± 10% V - 50 Hz.

Supplied with:
PT100 probe for external temperature control.
Set of two 2-meter hoses with insulating material (working range -40...+60 °C), metal clamps, tap and hose connector.

MODELS

Name	Volume (l)	Working range (°C)	Dimensions LxWxH (mm)	Weight (kg)	Power (W)	p/n
CB 5-10	5	-10 ... +100	290 x 570 x 710	34	2300	41202202
CB 5-20	5	-20 ... +100	380 x 670 x 840	54	2600	41202212
CB 5-30	5	-30 ... +100	380 x 670 x 840	54	2600	41202222

ACCESSORIES FOR CB

	Description	p/n
HOSES	Set of two 2 meters hoses with insulating material (working range -40...+60 °C) complete with metal clamps for attachment to hose connector	41102302
WHEELS	Kit of 4 swivel wheels, two of which can be braked	41102312
THERMAL FLUID	Ready-to-use pre-mixed thermal fluid, working range -30÷+80 °C. 5 litres barrel.	41102322
PT 56 TFE	PT100 external temperature probe with Teflon cable	51000252

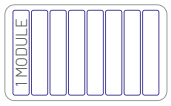
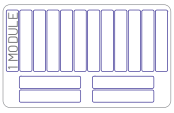
WB SERIES

- Working range : *+5°C RT ... +85 / +100 °C*
- Usable volume *5 / 12 / 22 / 40 litres*
- Backlit LED display

Waterbath Argolab.
Safety Class 2 (DIN 12880).
Visual and acoustic alarms that can be silenced by the operator. Digital timer with programming range 1 min - 99 h 59 min. and continuous operation.
Delayed start function of the heating cycle. Safe temperature function: working temperature limitation for sample protection. High-quality stainless steel inner chamber and holed bottom plate (removable). Side handle knob included (WB 5 - WB 12).

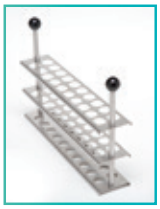
The WB 22 Pump and WB 40 Pump models have a recirculation pump for perfect uniform temperature distribution.
Power supply: 220± 10% V - 50/60 Hz.

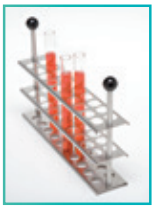
Supplied with: Stainless steel lid with 5 mm hole for external sensor passage, holed bottom plate, pipe for the drainage of the tank and quick-acting valve for periodic liquid replacement.

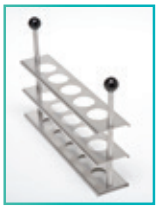
Name	Volume (l)	Working range (°C)	Stability at 37 °C	Tank dimensions LxWxH (mm)	Disposition rack	p/n
WB 5	5	+5 RT ... +100 * ** 100 °C reachable with thermal fluid*	± 0,1	300 x 155 x 150		41201592
WB 12	12	+5 RT ... +100 * ** 100 °C reachable with thermal fluid*	± 0,1	300 x 240 x 200		41201602
WB 22	22	+5 RT ... +100 * ** 100 °C reachable with thermal fluid*	± 0,1	500 x 295 x 200		41201712
WB 22 PUMP	22	+5 RT ... +85	± 0,1	500 x 295 x 200		41201612
WB 40 PUMP	40	+5 RT ... +85	± 0,2	645 x 395 x 200		41201622

ACCESSORIES FOR WB

	Modules	p/n
RACK 1 for pipes Ø13mm / 20 places	1	41101802
RACK 2 for pipes Ø18mm / 20 places	1	41101812
RACK 3 for pipes Ø31mm / 5 places	1	41101822
RACK 4 for pipes Ø56mm / 8 places (biberon)	3	41101842
RACK 5 for blood sachets / 5 places	3	41101852
BECKER SUPPORT FOR WB 12 / 4 places		41101952
BECKER SUPPORT FOR WB 22 / 8 places		41101962


RACK 1
Ø13mm


RACK 2
Ø18mm


RACK 3
Ø31mm

RACK 4
Ø56mm

RACK5
for blood sachets

BECKER SUPPORT

Thermostatation

SB 35 SHAKING BATH

- **Working range :** *+5°C RT ... +100 °C*
- **Tank capacity:** *35 litres*
- **Backlit LED display**

Horizontal shaking bath (Dubnoff) Argolab.
Visual and acoustic alarms that can be muted by the operator.

Digital timer with programming range 1 min - 99 h 59 min. and continuous operation.
Delayed start function of the heating cycle.

Safe temperature function: working temperature limitation for sample protection.
Safety class 2 (DIN 12880).

Power supply: 230V/50Hz, weight: 28kg.

Supplied with:
Stainless steel LID with a 5 mm hole for external sensor passage;
Universal basket with stainless steel spring support;
pipe for the drainage of the tank and quick-acting valve for periodic liquid replacement..

MODEL

Name	Volume (l)	Working range (°C)	Stability at 37 (°C)	Homogeneity at 37 (°C)	Basket dimensions LxWxH (mm)	p/n
SB 35	35	+5 RT ... +100	±0,5	±1	320 x 200 x 115	41201732

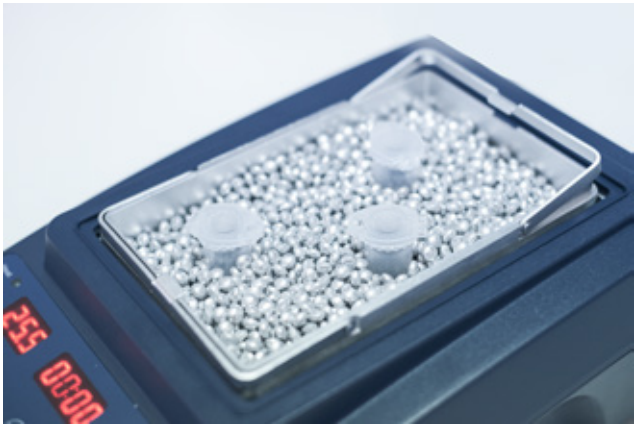
DRY BATH

- **Working range :** +25 ... +120 °C
- Accurate and uniform **temperature control**
- Backlit **LED display**
- **Calibration** on 1 point

ArgoLab dry bath with 1-point calibration function.
Settable temperature range between +25 and +120°C.
Calibration on 1 point by a simple operation.
Accurate and uniform temperature control (± 0.5°C @ 37°C).
"Hot" function for user safety Overheating function (140°C).
Several types of hostable blocks compatible with most common Ø cuvettes (9 types).
LED display with "real time" temperature display and remaining heating time.
Supplied as standard with lid for better heat preservation and safety.

The Argolab HB 120-C dry bath can accommodate up to 10 different test tube blocks, differing in number and volume.
Each block has a central thread for extraction (via dedicated rod) and at least 2 holes for temperature control (hole Ø 3 mm).
Each block is supplied without an extraction rod.

Supplied with
Power cable
Plastic cover
Extracting rod heating block
BLOCK NOT INCLUDED



Name	Working range (°C)	Accuracy a 37 (°C)	p/n
HB 120-C	+25 ... +120	±0,5	22010013

HEATING BLOCKS

The Argolab HB 120-C dry bath can accommodate up to 10 different test tube blocks, differing in number and volume.
Each block has a central thread for extraction (via dedicated rod) and at least 2 holes for temperature control (hole Ø 3 mm).
Blocks are supplied without the extraction rod.

Name	Description	p/n
Microplates		22010203
8 places x 50 ml		22010193
28 places x 5/15 ml		22010173
45 places x 5 ml		22010183
40 places x 0,5 ml		22010133
40 places x 1,5 ml		22010143
40 places x 2,0 ml		22010153
54 places x 0,2 ml		22010123
18 places x 0,2 / 0,5 / 1,5 / 2 [ml]		22010163
BATHTUB + SPHERES KIT		22010103
BATHTUB		22010113
ALUMINUM SPHERES 1 KG		22010213

DU - DIGITAL ULTRASONIC BATHS

- **Working range:** +5°C RT ... +60 °C
- Backlit **LED display**
- **Ultrasonic frequency** 40/28 KHz.
- **Timer** from 1 to 99 minutes.
- **Sweep, Pulse and Degas functions**

Argolab digital ultrasonic bath with integrated Sweep technology and equipped with Pulse and Degas functions.
Digital illuminated displays showing current and set temperature, timer, ultrasonic power level and operating frequency.
Separate control of ultrasound, heating and Pulse and Degas functions.
Temperature control up to 60°C.
Timer can be set from 1 to 99 minutes.

On models DU-100S / DU-220S / DU-450S there is a tap for emptying the tank.

Supplied as standard: stainless steel basket and lid.

MODEL

Name	Volume (l)	Heating power (W)	Ultrasonic power (W)	Tank dimensions LxWxH (mm)	Weight (kg)	p/n
DU-06	0,6	Not heating	50	150 x 85 x65	1,35	41300323
DU-32S	3,2	100	120	240 x 135 x100	3,80	41300333
DU-45S	4,5	200	180	300 x 150 x 100	4,40	41300343
DU-65S	6,5	200	180	300 x 150 x150	5,40	41300353
DU-100S	10	500	240	300 x 240 x150	8,20	41300363
DU-220S	22	500	480	500 x 300 x 150	13,20	41300373
DU-450S	45	1000	720	500 x 300 x 300	17	41300383

NEW CE-6200 A

No-heating digital ultrasonic bath with volume: 1,4 L.
Particularly **recommended for jewellers.**

Digital display, touch screen panel,
Adjustable timer 90-180-280-380-480 Sec.
Ultrasonic frequency 42 KHz.

Supplied with: basket and lid.

	Name	Volume (l)	Ultrasonic power (W)	Tank dimensions LxWxH (mm)	Weight (Kg)	p/n
NEW	**CE-6200 A**	1,4	70	175 x 135 x 70	1,55	41300313

AU - ANALOGIC ULTRASONIC BATHS

- **Working range :** *+5°C RT ... +80 °C*
- **Ultrasonic frequency:** *40 KHz.*
- **Timer** *from 1 to 30 minutes, or in continuous..*

Analogic ultrasonic bath.
Temperature adjustment up to 80°C .
Adjustable timer from 1 to 30 minutes and limitless.
Ultrasonic frequency 40 KHz.

Supplied with: basket and stainless steel lid.

On AU 220 and AU 450 models, there is a tap for emptying the tank.

MODELS

Name	Volume (l)	Heating power (W)	Ultrasonic power (W)	Tank dimensions LxWxH (mm)	Weight (kg)	p/n
AU-32	3,2	100	120	240 x 135 x100	3,80	41300403
AU-65	6,5	200	180	300 x 150 x150	5,40	41300413
AU-220	22	500	480	500 x 300 x 150	13,20	41300433
AU-450	45	1000	750	500 x 300 x 300	17,00	41300423

ACCESSORIES

Name	Description		p/n
CLEANER	Universal cleaning solution. Bottle of 30 ml		41300253
CLEANER	Universal cleaning solution. Bottle of 500 ml		41300263
BECKER SUPPORT	For **DU-45 DU-65 e AU-65**, with 2 holes		41300513
BECKER SUPPORT	For **DU-100**, with 4 holes		41300533
SS-200 SIEVE HOLDER	Sieve holder. Compatible with AU-450 model only. Holder for no. 5 sieves of 80 mm or no. 6 sieves of 60 mm thick.		41300203

ARGO FREDDO

ARGO LAB

WARRANTY 3 YEARS

Save Energy

EU Designed

- RESOLUTION 0,1°C
- MIN-MAX ALARM
- HOMOGENEITY EN 60068-3
- VENTILATION (FR series)
- DEFROST FUNCTION
- OPEN DOOR ALARM
- KEY LOCK
- PLASTIC-COATED STEEL SHELVES
- REMOTE ALARM CONTACT
- LED LIGHTING
- REVERSIBLE DOOR
- ECO FRIENDLY GAS
- THROUGH-HOLE 10 mm
- WHEELS (260 L)
- CALIBRATION REPORT

FR REFRIGERATORS

- **Temperature range:** *+2 ... +8 °C*
- **Internal volume:** *110 - 260 L*
- **LED display**

Professional laboratory refrigerators with digital display and electronic control, automatic defrosting, temperature and open-door alarms. Smart and easy-to-use refrigerated instruments; the internal parameters can be adjusted according to the most restrictive needs.

The internal dynamic ventilation system ensures the **best conditions** to store even the most sensitive materials, in accordance with **EN 60068-3.**

Highly efficient compressors use environmentally friendly, CFC-free and HCFC-free refrigerant gases in compliance with European environmental regulations, such as F-Gas Regulation (EU) 517/2014.

Three alarm levels: audible, visual and remote with 0 potential contact.

The small-sized models (110 litres) are suitable for laboratories with limited spaces and can be placed under the counter.

All models are equipped with an internal Full-LED light and reversible door, blind or glass (G versions), with key lock.

Pull-out shelve

Microprocessor controller with simple and intuitive interface; tenth of degree resolution for accurate control using NTC-type probes.

Measurement unit: °C or °F.

260 L models are supplied with wheels (frontally lockable).

Name	Volume (liters)	Temperature range (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
FR 110	110	+2 ... +8 °C	600 x 560 x 805	50	120	41500012
FR 110 G	110	+2 ... +8 °C	600 x 560 x 805	50	120	41500022
FR 260	260	+2 ... +8 °C	600 x 560 x 1525	75	160	41500032
FR 260 G	260	+2 ... +8 °C	600 x 560 x 1525	75	160	41500042
PERFORATED BASKET						41500812
PULL-OUT SHELF						41500802

NEW FRZ 300 COMBINED FRIDGE-FREEZER

- **Working range:** +2 ... +8 °C (refrigerator) / -25 ... -10 °C (freezer)
- **Usable volume** 300 L : 200 (refrigerator) + 100 (freezer)
- **Dual LED display**

Version G

The combined refrigerator-freezer FRZ 300 is the ideal solution for laboratories requiring a reliable and versatile combined instrument designed to provide **maximum control for the storage of sensitive materials.**

With a **total capacity of 300 litres**, divided into 200 litres for the refrigerator and 100 litres for the freezer, the FRZ 300 offers ample space and storage flexibility for different laboratory needs.

The digital display and electronic control, with a resolution of 0.1°C, allows to precisely adjust the temperature, ensuring accurate control of indoor conditions.

The advanced customizable alarm system with audible and visual alerts warns about critical changes, while the 0 potential contact offers remote monitoring to be safer.

The highly efficient compressors use environmentally friendly, **CFC-free and HCFC-free refrigerant gases in compliance with European environmental regulations**, such as F-Gas Regulation (EU) 517/2014.

Calibration parameters are easily accessible through a dedicated submenu, making the FRZ 300 easy to handle even in maintenance operations.

The design is developed to guarantee **comfort and accessibility**: the internal LED lighting (refrigeration compartment) ensures a clear view of the samples, while the reversible door opening allows to easily place it within the laboratory.

The combined fridge-freezer is also available with a glass door (for the refrigerator side), to monitor the samples without opening the door.

The swiveling and braking wheels allow to position the instrument, even in limited spaces.

The FRZ 300 is equipped with a 10 mm through-hole on both refrigerator and freezer chambers, and resistant plastic-coated steel shelves designed for heavy use and easy cleaning.

The open-door alarm function, with a user-adjustable delay, provides additional protection against heat loss.
The combined fridge-freezer FRZ 300 is the ideal choice for any laboratory requiring a high quality, reliable and safe combined instrument with specific focus on sample protection and environmental sustainability.

The combined fridge-freezer **FRZ 300 is supplied with a double calibration report at +5.0°C and -20.0°C performed with an ACCREDIA-referable instrument.**

Dual display

Name	Volume (liters)	Temperature range (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
FRZ 300	300	-25 ... -10 °C | +2 ... +8 °C	600 x 6100 x 1770	75	340	41500102
FRZ 300 G	300	-25 ... -10 °C | +2 ... +8 °C	600 x 6100 x 1770	75	340	41500112

FZ 300-P FREEZER CHEST

- **Working range:** -25 ... -10 °C
- **Usable volume** 300 L
- **Dual LED display**

The FZ 300-P freezer chest is the ideal choice for laboratories requiring a reliable and versatile instrument designed to provide maximum control for the storage of sensitive materials.

With a capacity of 300 litres, the FZ 300-P offers ample space and efficient organization, ideal for different storage needs in the laboratory.

The digital display and electronic control via NTC probes ensure precise temperature control, with resolution at 0.1°C, offering accurate control of indoor conditions.

The advanced customized alarm system with audible and visual alarms warns about critical changes from the set temperature, ensuring the safety of the samples.

The highly efficient compressors use eco-friendly, CFC-free and HCFC-free refrigerant gases in compliance with European environmental regulations, such as F-Gas Regulation (EU) 517/2014.

Calibration parameters are easily accessible through a dedicated submenu, making the FZ 300-P easy to handle even in maintenance operations.

The design of the FZ 300-P is developed to guarantee comfort and accessibility: the lockable handle ensures the protection of samples, while the practical internal drain valve facilitates the handling and maintenance of the instrument.

The swiveling and braking wheels allow to position the instrument, even in limited spaces. The instrument includes two plastic-coated steel drawers, designed for heavy use and easy cleaning.

FZ 300-P is equipped with a 10 mm through-hole for a even more versatile use.

The FZ 300-P freezer is an ideal choice for any laboratory that requires a high-quality, safe and reliable instrument with specific focus on sample protection and environmental sustainability.

The FZ 300-P freezer is supplied with a calibration report at -20.0°C, performed with an ACCREDIA- referable instrument.

Side hole
and drain valve

Key lock

Name	Volume (litres)	Working range (°C)	External dimensions L x W x H (mm)	Weight (kg)	Power (w)	p/n
FZ 300-P	300	-25 ... -10 °C	1280 x 770 x 890	69	300	41500302

FZ FREEZER

- **Working range:** *-25 ... -10 °C*
- **Usable volume:** *110 - 260 L*
- **LED display**

Professional laboratory freezer with digital display and electronic control, defrost function, temperature and open-door alarms.

Smart refrigerated instruments, the internal parameters can be adjusted according to even the most restrictive needs.

Highly efficient compressors contain "eco-friendly" gases CFC-free and HCFC-free, in accordance with Directive 2014/68/EU.

Three alarm levels: acoustic, visual and remote with 0 potential contact.

Smaller models (110 litres) are suitable for environments with reduced space and can be placed under the counter.
All models are equipped with an internal Full-LED light and reversible door, with key lock.

260 L models are supplied with wheels.
(Front wheels are lockable).

CALIBRATION REPORT

All ARGO Freddo FR and FZ models are supplied with calibration report included in the price, performed with an Accredia-certified sample instrument.

Reference temperatures:
- + 5 °C FR SERIES
- - 20 °C FZ SERIES

Name	Volume (liters)	Temperature range (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
FZ 110	110	-25 ... -10 °C	600 x 560 x 805	50	150	41500212
FZ 260	260	-25 ... -10 °C	600 x 560 x 1525	75	190	41500232

ACCESSORIES

	p/n
Standard shelf compatible with all models	41500702
Bottom shelf compatible with all models	41500712
Overlay kit for 110lt	41500722
Pull-out shelf	41500802
Basket shelf	41500812
IQ / OQ Manual ArgoFreddo	41510012

DATA SHEET

	FR 110	FR 110 G	FR 260	FR 260 G	FZ 110	FZ 260	FRZ 300	FRZ 300G	FZ 300-P
Usable Volume [Liters]	110		260		110	260	300 (200 FR + 100 FZ)		285
Temperature range / resolution	+2,0 ... +8,0 °C / 0,1 °C				-25,0 ... -10,0 °C / 0,1 °C		FR: +2.0 ... +8.0 °C; FZ: -25.0 ... -10.0 °C		-25.0 ... -10.0 °C
Defrost function	Auto and manual				Manual		Manual (FZ) Automatic(FR)		Manual
* *Temperature room variation*	1,3 °C (at 5°C)	1,7 °C (at 5°C)	1,9 °C (at 5°C)	2,2 °C (at 5°C)	2,5 °C (at -20°C)	2,1 °C (at -20°C)	1,0 °C (at 5°C) 1,0 °C (at 20°C)	1,2 °C (at 5°C) 1,0 °C (at 20°C)	±2.0°C (at -20°C)
* *Gradient*	1,3 °C (at 5°C)	1,7 °C (at 5°C)	1,9 °C (at 5°C)	2,6 °C (at 5°C)	2,5 °C (at -20°C)	2,1 °C (at -20°C)	1,0 °C (at 5°C) 1,8 °C (at 20°C)	1,3 °C (at 5°C) 1,8 °C (at 20°C)	±2.0°C (at -20°C)
** *Recovery time*	12 min (at 5°C)	9 min (at 5°C)	18 min (at 5°C)	18 min (at 5°C)	22 min (at -20°C)	30 min (at -20°C)	19 min (FR) - 26 min (FZ)		30 min
Refrigeration	Dynamic (forced ventilation)				Static (natural convection)		FR: Dynamic - FZ: Static (forced ventilation - natural convection)		Static (natural convection)
Controller / display	microprocessor / digital								
Power supply	220 - 240 V								
Internal dimensions (L x W x H)	500 x 420 x 570		500 x 450 x 1290		500 x 420 x 570	500 x 450 x 1290	FR: 510 x 490 x 730 FZ: 450 x 460 x 440		1080 x 480 x 590
External dimensions (L x W x H)	600 x 590 x 805		600 x 590 x 1570		600 x 590 x 805	600 x 590 x 1570	600 × 610 ×1770		1280 x 770 x 890
Weight	50 Kg		75 Kg		50 Kg	75 Kg	75 Kg		69 Kg
Number of shelves (supplied / max.)	3 / 3		6 / 7		3 / 3	6 / 7	FR: 3/ 5 FZ: 2/ 3		2
Min. distance between shelves	13 mm						13 mm		Not applicable
Maximum shelves loading capacity	15 Kg						15 Kg		15 Kg
Door	Blind	Glass	Blind	Glass	Blind		Blind	Blind + Glass	Blind
Light	LED								
Hole diameter for probe passage	10 mm								
Power	120 W		160 W		150 W	190 W	340 W		300 W
p/n	**41500012**	**41500022**	**41500032**	**41500042**	**41500212**	**41500232**	**41500102**	**41500112**	**41500302**

* In compliance with the directive **EN 60068-3**

** In compliance with the technical directive **DIN 12880**

THERMOMETERS

DATA SHEET

Sensor	Measuring range	Max tolerance	Class
THERMOCOUPLE **K**	-60...+1100 °C	±1,5 °C or 0,4% T*	1
THERMOCOUPLE **T**	-50...+350 °C	±0,5 °C or 0,4% T*	1
THERMISTOR **NTC**	+25...+85 °C -50...+150 °C	±0,5 °C ±1 °C	-
PT 100	-100 °C +0 °C +100 °C +200 °C	±0,35 °C ±0,15 °C ±0,35 °C ±0,55 °C	Class A
PT 100	-100 °C +0 °C +100 °C +200 °C	±0,16 °C ±0,06 °C ±0,16 °C ±0,26 °C	Class 1/5 DIN

T*=Measured temperature. Take the worst condition.

TEMP 74

- 4 PT100 inputs
- Resolution 0,01 °C
- Measuring range: -200,0 ... +999,9 °C
- 4" color and high-definition display
- Data logger up to 190.000 measurements with date and time
- Three saving modes
- Certifiable by Accredia

GLP portable thermometer, with 4 channels for PT100 probes.
Innovative high-resolution color display, excellent data display in all light conditions.

Possibility to select Light or Dark Theme to meet every need.
"Stop-reading" functions, recording of Min and Max values.
Protected calibration on 1 point for each channel independently, with indication of correction made.
"Align all" function to align all channels to the reference measurement.

Ability to enter an ID for each channel. Alarms function: enable a minimum threshold and a maximum threshold.
If the temperature trespasses you will be alerted immediately by an audible and visual signal.4-digit numeric password for data protection and calibrations.
Manual, automatic and programmed data logger, up to 190,000 records with date and time.
DataLink+ software can be downloaded free of charge from www.xsinstruments.com.
Led and self-diagnostic messages indicate measurement status to the operator.

Powered by battery, PC, power supply. Auto power off.

DataLink+ software

Supplied with:
Carrying case, USB power supply, USB cable for connection to PC, batteries and operating instructions.

Name	Measuring range	Resolution	Accuracy T	p/n
TEMP 74 WITHOUT PROBE	-200 ... +999 °C	0,1 °C (-99,9 ... +199,9 °C) 1 °C in the rest of the scale	±0,2 °C (-99,9 ... +99,9 °C) ±2 °C in the rest of the scale	50111212
TEMP 74 + 4 PT56 TFE				50111252

TEMP 70 Vio PT100

- **Resolution** 0,01 °C
- **Measuring range** -200,0...+999,9 °C
- Dual channel **PT100**
- **High definition** backlit coloured LCD **Display**
- **Data logger** up to 1000 measurements with date and time
- **Certifiable** by Accredia

GLP portable thermometer, with **double channel for PT 100 probes.**
Innovative **high resolution color display**, excellent readability in all light conditions.

"Hold" functions and recording of Min and Max values.
Protected calibration on 1 point with indication of the correction made.
Manual and automatic data logger, up to 1,000 records with date and time.
Data-Link free software downloadable on the website www.xsinstruments.com.
Guided procedures on the display for a simple and intuitive use.
LED and self-diagnosis messages indicate the status of the measurement to the operator.
Powered by battery, PC, or USB power supply. Auto power off.

Supplied with:
Carrying case, USB power supply, USB cable for PC connection, batteries and user manual.

Name	Measuring range	Resolution	T Accuracy	p/n
TEMP 70 Vio PT100 WITHOUT PROBE	-200,0 ... +999,9 °C	0,01 °C (-99,99 ... +99,99 °C) 0,1 °C in the rest of the scale	±0,03 °C (-99,99 ... +99,99 °C) ±0,1 °C in the rest of the scale	50111082
SUPPORT	Magnetic holder for Vio series portables			50110252

TEMP 7 Vio PT100

- **Resolution** 0,1 °C
- **Measuring range:** *-200 ... +999°C*
- **High definition** backlit coloured LCD **Display**
- **Certifiable** by Accredia

Portable thermometer, for PT100 probes, with **backlit color display.**
Recording of Min and Max values, measure stability indicator.
Protected calibration on 1 point with indication of the correction made.
Hold function and **auto-off** after 20 minutes (can be disabled).
Guided procedures on the display for a simple and intuitive use.
LED and self-diagnosis messages indicate the status of the measurement to the operator.

Supplied with:
Carrying case, batteries and user manual.

Name	Measuring range	Resolution	T Accuracy	p/n
TEMP 7 VIO PT100 WITHOUT PROBE	-200 ... +999 °C	0,1 °C (-99,9 ... +199,9 °C) 1 °C in the rest of the scale	±0,2 °C (-99,9 ... +99,9 °C) ±2 °C in the rest of the scale	50111012
SUPPORT	Magnetic holder for Vio series portables			50110252

TEMP 7 Vio NTC

- Resolution 0,1 °C
- Measuring range: -50,0 ... +150,0 °C
- High definition backlit coloured LCD Display

Portable thermometer, for NTC 30KΩ probes, with **backlit color display.**
Recording of Min and Max values, measure stability indicator.
Protected calibration on 1 point with indication of the correction made.
Hold function and **auto-off** after 20 minutes (can be disabled).
Guided procedures on the display for a simple and intuitive use.
LED and self-diagnosis messages indicate the status of the measurement to the operator.

Certifiable by Accredia: range 0 ... 150 °C

Supplied with:
Carrying case, batteries and user manual.

Name	Description	p/n
TEMP 7 Vio NTC WITHOUT PROBE	Portable thermometer	50111052
TEMP 7 Vio NTC WITH PROBE FOR AIR AND LIQUID	Portable thermometer **with NT7L probe** for air and liquid	50111062
TEMP 7 Vio NTC WITH PENETRATION PROBE	Portable thermometer **with NT7P probe** with penetration tip	50111092
SUPPORT	Magnetic holder for Vio series portables	50110252

NTC PROBES

CABLE = 1,5 M | **HANDLE** | **STAINLESS STEEL** STEM | **TIP**

Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certifiable range °C	t_{90} min	p/n
NT7L LIQUIDS AND AIR	200 mm	Ø= 3 mm		- 50 ... +150	0 ... +150	3	50011142
NT7P PENETRATION	150 mm	Ø= 4 mm		- 50 ... +150	0 ... +150	3	50011122

TEMP 7 Vio K/T

- **Resolution** 0,1 °C
- **Measuring range:** -250,0...+1.350 °C
- **Certifiable** by Accredia
- **High definition** backlit coloured LCD **Display**

Portable thermometer, for **thermocouple K/T** probes, with **backlit color display.**
Recording of Min and Max values, measure stability indicator.
Protected calibration on 1 point with indication of the correction made.
Hold function and **auto-off** after 20 minutes (can be disabled).
Guided procedures on the display for a simple and intuitive use.
LED and self-diagnosis messages indicate the status of the measurement to the operator.

Supplied with:
Carrying case, batteries and user manual.

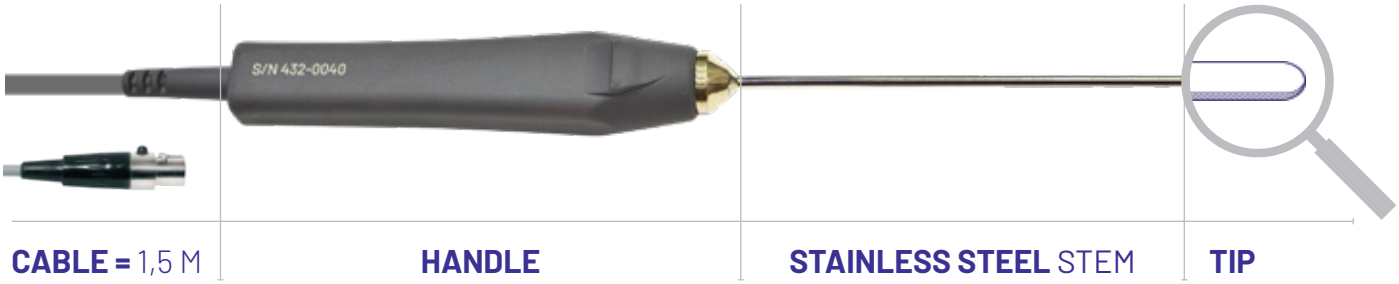
Name	Measuring range	Resolution	T Accuracy	p/n
TEMP 7 Vio K/T WITHOUT PROBE	K = -200,0 ... +1.350 °C T= -250,0 ... +400 °C	0,1 °C (-99,9...+199,9 °C) 1 °C in the rest of the scale	±0,1 % / ±0,4 °C reading > -150 °C ±0,25 % / ±1 °C reading < -150 °C	50111032
SUPPORT	Magnetic holder for Vio series portables			50110252

XS Portable thermometers brochures are available on our website www.xsinstruments.com

Thermometers

PT100 PROBES

PROBES WITH HANDLE



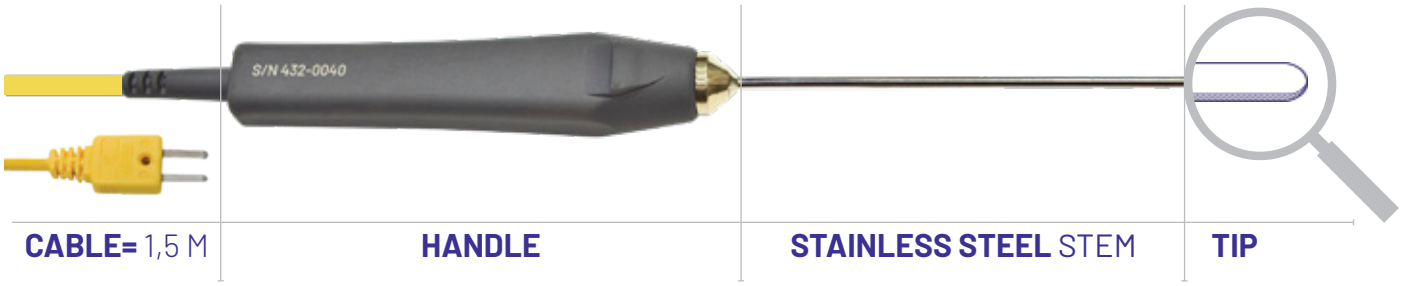
Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certifiable range °C	t_{90} min	Precision class	p/n
PT56 L LIQUID AND AIR	200 mm	Ø= 3 mm		-50 ... +400	-50 ... +250	2	A	51000202
PT56 C CONTACT	200 mm	Ø= 5 mm		-50 ... +400	0 ... +250	3	A	51000212
PT56 P PENETRATION	150 mm	Ø= 4 mm		-50 ... +400	-50 ... +250	2	A	51000222
PT56 A AIR	200 mm	Ø= 4 mm		-50 ... +250	-50 ... +150	2	A	51000232
PT56 L 1/5 DIN	200 mm	Ø= 3 mm		-50 ... +400	-50 ... +300	2	1/5 DIN	51000242
PT56 /500 LIQUIDS AND AIR	500 mm	Ø= 6 mm		-50 ... +400	-50 ... +300	5	A	51000262
PT56 /1000 LIQUIDS AND AIR	1000 mm	Ø= 6 mm		-50 ... +400	-50 ... +300	5	A	51000272

PROBES WITHOUT HANDLE- PERFECT FOR OVEN AND INCUBATORS

Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certifiable range °C	t_{90} min	Precision class	p/n
PT56 TFE LIQUIDS AND AIR	100 mm	Ø= 4 mm		-200... +300 cable included	-200 ... +200	3	A	51000252
PT56 TFE 1/5 DIN LIQUIDS AND AIR	100 mm	Ø= 4 mm		-200... +300 cable included	-200 ... +200	3	1/5 DIN	51000292

TERMOCOUPLE PROBES **K**

PROBES WITH HANDLE



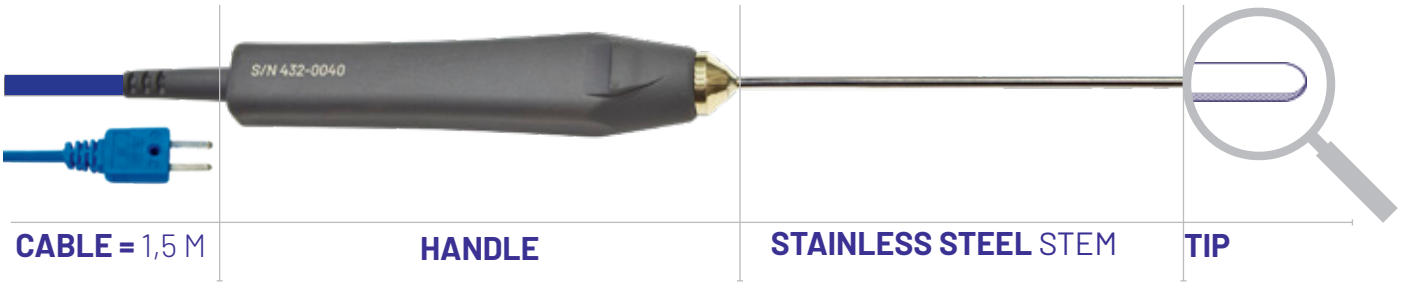
Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certifiable range °C	t_{90} min	Precision class	p/n
3K 220 LIQUIDS AND AIR	200 mm	Ø= 2 mm		-60 ... +600	0 ... +400	2	1	51000752
3K 320	200 mm	Ø= 3 mm		-60 ... +800	0 ... +550	3	1	51000762
3K 350	500 mm	Ø= 3 mm		- 60 ... +800	0 ... +800	2	1	51000772
3K 6100	1000 mm FOLDING	Ø= 6 mm		-60 ... +1100	0 ... +1100	4	1	51000782
3K 6120	1200 mm FOLDING	Ø= 6 mm		-60 ... +1100	0 ... +1100	6	1	51000822
3K 650	500 mm FOLDING	Ø= 6 mm		-60 ... +1100	0 ... +1100	7	1	51000792
3K 415 P PENETRATION	150 mm	Ø= 4 mm		-50 ... +600	0 ... +550	2	1	51000832
3K 520 C CONTACT	200 mm	Ø= 5 mm		-60 ... +600	0 ... +250	2	1	51000802

PROBES WITHOUT HANDLE - PERFECT FOR TUBES AND HARD PLACES TO REACH

Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certifiable range °C	t_{90} min	Precision class	p/n
3K 1200 FLEXIBLE WIRE	2000 mm	Ø= 2 mm		-60 ... +400	0 ... +300	1	1	51000812

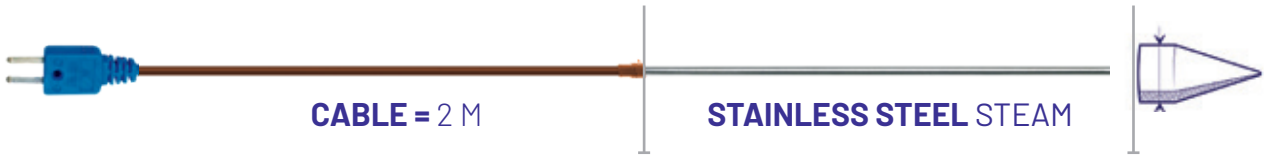
TERMOCOUPLE PROBES **T**

PROBES WITH HANDLE SUGGESTED FOR FOOD AND PHARMACEUTICAL INDUSTRY



Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certifiable range °C	t_{90} min	Precision class	p/n
3T 320 LIQUIDS AND AIR	200 mm	Ø= 3 mm		-50 ... +350	0 ... +300	3	1	51000902
3T 415 PENETRATION	150 mm	Ø= 4 mm		-50 ... +350	0 ... +300	2	1	51000912
3T 215 PENETRATION	150 mm	Ø= 2 mm		-50 ... +350	0 ... +300	1	1	51000942
3T 520 C CONTACT	200 mm	Ø= 5 mm		-50 ... +350	0 ... +250	2	1	51000922
3T 420 A AIR	200 mm	Ø= 4 mm		-50 ... +250	0 ... +200	2	1	51000932

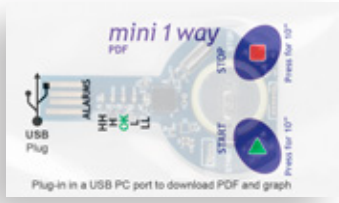
PROBES WITHOUT HANDLE - PERFECT FOR OVEN AND INCUBATORS



Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certifiable range °C	t_{90} min	Precision class	p/n
3T 210	100 mm	Ø= 2,5 mm		-50 ... +300	-40 ... +250	2	1	51000952

MINI 1 WAY

- **Single Trip** Data logger - 1 trip
- **Working range :** -40...+80 °C



1-channel data logger with internal temperature sensor and IP67 protection.
START button to turn it on. Marking of an event on the logger via Start button.
Memory.
1 WAY: 45,000 measurements (Interval 5 sec...24 hours),
1 WAY LCD: 20,000 measurements. Internal battery (life 1 year).

Working range: -40...+80 °C.
Resolution 0,01°C.
Temperature accuracy ±0,3°C (-10...+80°C), ±0,5°C (-40...-10°C).
Humidity accuracy ±3 %RH (+15...+25°C), ±5 %elsewhere.

Name	Description	Qty	p/n
MINI 1 WAY PREPROGRAMMED	Preprogrammed with alarm thresholds (LL = 0 ° C, L = 2 ° C, H = 8 ° C, HH = 10 ° C), 5 minute acquisition interval, STOP button not activated.	10 pcs	70101013
MINI 1 WAY PROGRAMMABLE ON REQUEST	Provide Giorgio Bormac with alarm thresholds with delays, acquisition interval, acquisition, possible activation of STOP button.	10 pcs	70101003
MINI 1 WAY LCD WITH DISPLAY	Provide Giorgio Bormac with alarm thresholds with delays, acquisition interval, possible activation of acquisition, possible activation of STOP button.	10 pcs	70101043

NEW

MINI T - T1 D - TH - TB

- **Memory :** 44.500 measurements
- **Resolution :** 0,01 °C
- **Recording interval:** from 5 seconds to 24 hours
- Automatic file storage: **ZLG, TXT, CSV, PDF**

mini T mini TH mini T1 D mini TB

XS mini loggers are programmable with zLogg Manager software, and automatically generate a report in PDF format.

They have a multi-function display:
(date/time, sampling interval, start and stop recording mode, minimum, maximum, average value and average kinetic temperature).
They are supplied with a buzzer sounds when thresholds are exceeded.

All at the click of a button. The logger works like a normal USB stick and automatically generates report files.
No software is required to download data.

It has 4 alarm thresholds programmable via software.
When connected to a PC USB port, **XS mini loggers automatically generate a PDF report in graphical format.**
Each model is built with high quality materials to ensure precision and reliability.

Name	Range	Resolution	Accuracy	p/n
MINI T EXTERNAL PROBE	T: - 40 ...+80 °C	0,01 °C	T: ±0,2°C (-10...+80°C) / ±0,5°C (-40...-10°C)	70100503
NEW **MINI T1 D** EXTERNAL PROBE	T: - 40 ...+130 °C	0,01 °C	T: ±0,3°C (-10...+80°C) / ±0,5 °C elsewhere	70100513
MINI TH TEMPERATURE + HUMIDITY	T : - 40 ...+80 °C H : 10...90 % RH	0,01 °C 0,01 % RH	T: ±0,2°C (-10...+80°C) / ±0,5°C (-40...-10°C) H:±3%RH (+15 ... 25 °C) / ± 5% elsewhere	70100523
MINI TB WITH PROBE	T : - 200 ...+200 °C	0,01 °C	T: 0,3°C (-30...+120°C) , ±0,5°C (elsewhere) , ±1°C (+120 ...+200°C)	70100533
DBAT MINI BATTERY	DBAT Mini replacement batteries for Mini XS			70109993

UR 100

- **Working range T:** 0 ... +60,0 °C
- **Working range RH:** 0 ... +95,0 °C
- **Resolution** 0,1 °C / 0,1 %
- **Certifiable** by Accredia

Digital thermos-hygrometer with backlight display.

Simultaneous reading of temperature and humidity.

Temperature display in °C/°F, relative humidity and dew point.

Maximum and minimum U.R. value recording.
Certifiable by Accredia.

Equipped with:
Carrying case, temperature/humidity probe and user manual.

Name	Working range	Resolution	p/n
UR 100 WITH PROBE	**T:** 0 ... 60 °C **RH:** 0 ... 95 %	**T:** 0,1 °C **RH:** 0,1 %	52000302

Humidity certification

LAT center n. 123
Measurement uncertainty: 0.6...2.3 %UR

For digital thermos-hygrometers complete with probe

Range	p/n
1 temperature **point** + **3** humidity **points** for each temperature point (max. difference 50%)	21006299
1 temperature **point** + **4** humidity **points** from 10 % to 90 %UR	21006309
2 temperature **points** + **4** humidity **points** for each temperature point	21006319
3 temperature **points** + **4** humidity **points** for each temperature point	21006329
3 temperature **points** + **3** humidity **points** for each temperature point	21006339

Calibration temperature (+5 °C...+75°C) and details of the customer to be mentioned on the certificate must be communicated to grant fast delivery time.

SPECTROPHOTOMETERS
VIS *AND* UV/VIS

ONDA SPECTROPHOTOMETER

WARRANTY 2 YEARS

CE

ISO 9001 CERTIFIED

Touchscreen
A 5" TFT high definition color display for a new level of experience.
Easy user interface, built-in features (photometry, quantitation, spectrum scan).
In addition: File management, System Utility and Performance verification.

Connectivity and Storage
USB Flash Drive connection for data and methods storage.
PC remote control, RS-232 port for printer connection.
Internal memory to save methods and data.

Access and maintenance
Removable front panel, anticorrosive material cell holder, drain hole inside the sample compartment: designed to protect the instrument from accidental spills, time wear and damages.

Lamp compartment
Removable top panel for an easier and faster access to the sources compartment, for a rapid inspection of the lamps, check of alignment and lamp replacement.

Multi-language user interface
Select your preferred language to improve the interactivity with Onda Touch instruments. Available languages: English, German, Spanish, French, Italian and Portuguese.

NEW UV-52 SCAN

- UV / VISIBLE DOUBLE BEAM
- 10.1" colour **LCD TOUCH SCREEN display**
- **Working range** 190 - 1100 nm
- **Bandwidth** 0.5 – 1 – 2 – 4 – 5 nm (selectable)

Double beam UV/VISIBLE spectrophotometer
Bandwidth 0.5 – 1 – 2 – 4 – 5 nm, double beam, Tungsten/Deuterium sources
Multi-connectivity (USB, Ethernet, HDMI, printer), multilingual operating system

Functions: photometry, multi-WL, time scanning, kinetics, quantitative, DNA/RNA and proteins, spectrum scan, custom methods, file management, performance verification

External dimensions (W x L x H): 456x420x235 mm. Weight 18.0 kg
Power supply: 100 – 240 V - 50/60 Hz - Power: 140 W

10.1" COLOUR LCD TOUCH SCREEN DISPLAY

Equipped with:
4 optical glass cuvettes, 10 mm, 2 quartz cuvettes,
10 mm, single-position cell holder (10 mm), power cable, dust cover,
USB flash memory,
calibration report and ONDA Studio Basic software (for use with PC)

	Name	Range	Bandwidth	Optics	Source	p/n
NEW	**UV-52 SCAN**	190 - 1100 nm	0,5 – 1 – 2 – 4 – 5 nm	Double beam	Tungsten/Deuterium	11000112

NEW UV-42 SCAN

- UV / VISIBLE DOUBLE BEAM
- 10.1" colour **LCD TOUCH SCREEN display**
- **Working range** 190 - 1100 nm
- **Bandwidth** 1 nm

Double beam UV/VISIBLE spectrophotometer
Bandwidth 1 nm, double beam, Tungsten/Deuterium sources
Multi-connectivity (USB, Ethernet, HDMI, printer), multilingual operating system

Functions: photometry, multi-WL, time scanning, kinetics, quantitative, DNA/RNA and proteins, spectrum scan, custom methods, file management, performance verification.

External dimensions (W x L x H): 456x420x235 mm. Weight 17.0 kg
Power supply: 100-240 V AC - 50/60 Hz - Power: 140 W

Equipped with:
4 optical glass cuvettes 10 mm, 2 quartz cuvettes 10 mm,single-position cell holder (10 mm), power cable, dust cover, USB flash memory,
calibration report and ONDA Studio Basic software (for use with PC)

	Name	Range	Bandwidth	Optics	Source	p/n
NEW	**UV-42 SCAN**	190 - 1100 nm	1 nm	Double beam	Tungsten/Deuterium	11000102

SUPPORTS

	Description	p/n
NEW	Adapter for cuvettes from 1 to 3 mm (dimensions 12.5 x 12.5 x 45 mm). Set of 1 piece	11001162
	Support for microcells, beam height 15 mm	11000232
	Support for 5° reflectance measurements (20 x 20 x 4 mm)	11000412
NEW	4-position cell holder, optical path cuvettes up to 100 mm	11001102
NEW	1-position water-jacketed holder 10 mm	11001112
NEW	"Slide" for 4-position cuvette holder	11001132
NEW	4-position cell holder, cuvettes with optical path up to 50 mm	11001202
NEW	Support for solid samples (dimensions 50 x 30 x 2 mm), one position	11001212
NEW	Automatic holder with 5 positions, optical path up to 100 mm	11001222
NEW	Automatic 8-position holder, optical path 10 mm	11001232
NEW	Single-position holder, optical path up to 100 mm	11001272

CUVETTES FOR VISIBLE LIGHT - RANGE 320 - 1400 nm

	Description	Dimensions (W x L x H) mm	Volume ml	p/n
	Special optical glass cuvettes, 1 mm optical path length. Set of 2 pieces	12,5 x 3,5 x 45	0,4	11000382
NEW	Special optical glass cuvettes, 2 mm optical path length. Set of 2 pieces.	12,5 x 5 x 45	0,75	11001172
NEW	Special optical glass cuvettes, 3 mm optical path length. Set of 2 pieces	12,5 x 6 x 45	1,1	11001182
NEW	Special optical glass cuvettes, 5 mm optical path length. Set of 2 pieces.	12,5 x 8 x 45	1,8	11001192
	Special square optical glass cuvettes, 10 mm optical path length. Set of 4 pieces.	12,5 x 12,5 x 45	3,5	11000252
	Special optical glass cuvettes, 20 mm optical path length. Set of 4 pieces.	12,5 x 22,5 x 45	7	11000262
	Special optical glass cuvettes, 30 mm optical path length. Set of 4 pieces	12,5 x 32,5 x 45	10,5	11000272
	Special optical glass cuvettes, 50 mm optical path length. Set of 4 pieces.	12,5 x 52,5 x 45	17,5	11000282
	Special optical glass cuvettes, 100 mm optical path length. Set of 4 pieces.	12,5 x 102,5 x 45	35	11000292
	Flow cell made of special optical glass, optical path length 10 mm (beam height 15 mm).Microcell holder p/n 11000232 is required	12,5 x 12,5 x 45	0,7	11000492

CUVETTES FOR UV - RANGE 190 - 1400 nm

	Description	Dimensions (W x L x H) mm	Volume ml	p/n
	Quartz glass cuvettes, **1 mm optical path**. 2 pieces	12,5 x 3,5 x 45	0,4	11000522
NEW	Quartz glass cuvettes, **2 mm optical path** length. 2 pieces	12,5 x 5 x 45	0,75	11001282
NEW	Quartz glass cuvettes, **3 mm optical path**. 2 pieces	12,5 x 6 x 45	1,1	11001292
NEW	Quartz glass cuvettes, **5 mm optical path**. 2 pieces	12,5 x 8 x 45	1,8	11001302
	Square quartz glass cuvettes, **10 mm optical path** length. Set of 2 pieces	12,5 x 12,5 x 45	3,5	11000302
	Quartz glass cuvettes, **20 mm optical path**. Set of 2 pieces	12,5 x 22,5 x 45	7	11000312
	Quartz glass cuvettes, **30 mm optical path**. Set of 2 pieces	12,5 x 32,5 x 45	10,5	11000322
	Quartz glass cuvettes, **50 mm optical path**. Set of 2 pieces	12,5 x 52,5 x 45	17,5	11000332
	Quartz glass cuvettes, **100 mm optical path**. Set of 2 pieces	12,5 x 102,5 x 45	35	11000342

ACCESSORIES

	Name	Description	p/n
NEW	**ONDA Studio GLP/GMP** SOFTWARE	For Windows OS, includes all instrument functions. CFR 21 Part 11 Compliance	11001142
NEW	**IQ-OQ MANUAL**	IQ-OQ paper manual for ONDA Double beam spectrophotometers	11000182
NEW	**VISIBILE SOURCE** REPLACEMENT LAMP	VISIBLE range source. Tungsten halogen lamp. Compatible with UV-52 SCAN and UV-42 SCAN models.	11001122
	UV RANGE SOURCE REPLACEMENT LAMP	UV range source. Deuterium lamp. Compatible with ALL ONDA models	11000922

Name		p/n
SIPPER A-1100 FLOWING SYSTEM	Flow cell system, complete with external unit, power cable, connection cable Microcell holder, quartz flow cell, silicone flow tubes, adjustable flow rate from 1 to 8 ml/min. External dimensions (WxDxH) 270x170x115mm. Weight 3 kg. Power supply 240 V AC, 50/60 Hz	11001242
PELTIER A-1200 THERMOSTATIC SYSTEM	Constant temperature system with selectable range 10-60°C, complete with external unit, power cable, connection cable, special thermostatic micro-cell support. External dimensions (WxDxH) 270x170x115mm. Weight 3 kg. Power supply 240 V AC, 50/60 Hz SUPPLIED WITHOUT CELL	11001252
SIPPER / PELTIER A-1000 COMBINED	System for flow cells and selectable constant temperature. Range 10-60°C, adjustable flow rate from 1 to 8 ml/min. Complete with external unit, power cable, connection cable, special thermostatic finned micro-cell support, quartz flow cell, silicone flushing tubes. External dimensions (WxDxH) 270x170x115mm. Weight 3 kg. Power supply 240 V AC, 50/60 Hz	11001262

UV-31 SCAN

- UV / VISIBLE
- Coloured **Display 5" TOUCH SCREEN**
- **Working range** *190 - 1100 nm*
- **Bandwidth** *2 nm*

Single beam UV/VISIBLE spectrophotometer. 2 nm bandwidth, single beam, Tungsten/Deuterium lamps.
USB flash memory, operating system multi-language.

Functions: photometry, quantitative, spectrum scan, file management, performance verification

External dimensions (LxWxH) 456x360x185mm. Weight 10.7 kg.
Power supply 100 - 240 V AC - 50/60 Hz - Power: 120 W

Supplied with: 4 optical glass cuvettes o.p. 10 mm, 2 quartz cuvettes o.p. 10 mm, 4-position cell holder (10 mm), power cable, dust cover, USB flash memory, calibration report and Easy UV Basic software (allowing Quantitative, Single λ Photometric, Kinetic analysis).

Name	Range	Bandwidth	Beam	Source	p/n
UV-31 SCAN	190 - 1100 nm	2 nm	Single	Tungsten/Deuterium	11000082

V-11 SCAN

- VISIBLE
- Coloured **Display 5" TOUCH SCREEN**
- **Working range** *320 - 1100 nm*
- **Bandwidth** *4 nm*

VISIBLE single beam spectrophotometer.
4 nm bandwidth, single beam, Tungsten lamp, USB flash memory, operating system multi-language.

Functions: photometry, quantitative, spectrum scan, file management, performance verification.

External dimensions (LxWxH) 456x360x185mm. Weight 10.5 kg.
Power supply 100 - 240 V AC, 50/60 Hz - Power 75 W.

Supplied with: 4 o.p. 10 mm optical glass cuvettes, 4-position cell holder (10 mm), power cable, dust cover, USB flash memory , calibration report and Easy UV Basic software (allowing Quantitative, Single λ Photometric, Kinetic analysis).

Name	Range	Bandwidth	Beam	Source	p/n
V-11 SCAN	320 - 1100 nm	4 nm	Single	Tungsten	11000062

UV-21

- UV / VISIBLE
- Coloured **Display 5" TOUCH SCREEN**
- **Working range** *195 - 1050 nm*
- **Bandwidth** *4 nm*

Single beam UV/VISIBLE spectrophotometer. 4 nm bandwidth, single beam, Tungsten/Deuterium lamps.
USB flash memory, operating system multi-language.

Functions: photometry, quantitative, file management, performance verification

External dimensions (LxWxH) 456x360x185mm. Weight 10.7 kg
Power supply 100 - 240 V AC - 50/60 Hz - Power: 120 W

Supplied with: 4 optical glass cuvettes o.p. 10 mm, 2 quartz cuvettes o.p. 10 mm, 4-position cell holder (10 mm), power cable, dust cover, USB flash memory, calibration report and Easy UV Basic software (allowing Quantitative, Single λ Photometric, Kinetic analysis)

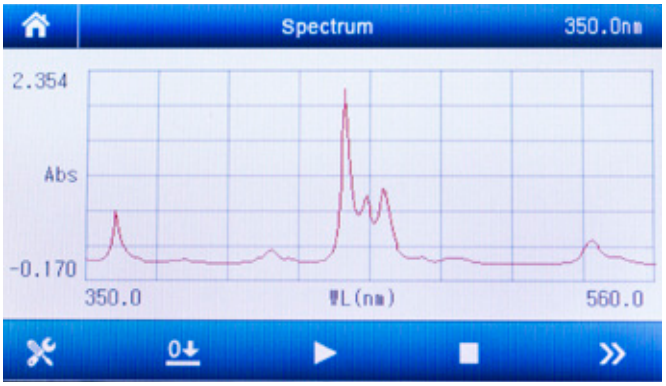
Name	Range	Bandwidth	Beam	Source	p/n
UV-21	195 - 1050 nm	4 nm	Single	Tungsten/Deuterium	11000072

SOFTWARE EASY UV FOR ONDA TOUCH SERIES

Easy UV is the application software based on Windows operating systems for the remote control of ONDA touch Series instruments. The application range, data analysis and file management function are greatly expanded, for example to clinical applications (hemoglobin oxygen saturation) and basic biotechnology research (UV methods for DNA/proteins, range DNA 0,2-70 µg/ml).

Functions:
Photometry, Quantitative, Kinetics, Multi-wavelength, Spectrum scan, DNA/protein (UV methods), Wine color analysis. (OIV-MA-AS2-07B)

Main Menu
Onda TOUCH single beam



Graphic display of a spectrum scan

ACCESSORIES

Name	Description	p/n
EASY UV SOFTWARE	For OS Windows, it includes the functions: **Photometry, Quantitative, Kinetics, Multi-wavelength, Spectrum scan, DNA/protein (UV methods), Wine color analysis.** Includes USB installation key, USB cable, USB dongle user license, user manual	11000972
MICRO PRINTER RS 232	Supplied with power supply, RS232 connection cable, paper roll	11000442
IQ-OQ MANUAL	IQ-OQ paper manual for ONDA spectrophotometers. Filled in by Giorgio Bormac staff to order separately (cod. 11000959)	11000192
VISIBLE SOURCE REPLACEMENT LAMP	VISIBLE range source. Tungsten halogen lamp. Vertical filament. **Compatible with V-10 Plus , UV-20 and UV-30 SCAN models.**	11000912
VISIBILE SOURCE REPLACEMENT LAMP	VISIBLE range source. Tungsten-halogen lamp. **Horizontal** filament. **Compatible with V-11 SCAN, UV-21 and UV-31 SCAN models.**	11000942
UV SOURCE REPLACEMENT LAMP	UV range source. Deuterium lamp. **Compatible with all ONDA models.**	11000922
ADAPTER TUBES 1 mm	10x10 adapter for 1 mm optical path cuvettes **Min. quantity order: 2 pcs**	11000582
NEW **ADAPTER** CUVETTES 1 - 3 mm	Adapter for 1 to 3 mm cuvettes (12.5 x 12.5 x 45 mm). Set of 1 piece	11001162

SUPPORTS

Description		p/n
4 position cell holder for up to **10 mm** square cuvettes		11000202
4 position cell holder for up to **50 mm** square cuvettes		11000212
4 position cell holder for up to **100 mm** square cuvettes		11000222
Single position cell holder for micro-cells ,central beam height: **15 mm**		11000232
5° Reflectance measurements Support (minimum sample: 20mmx20mmx4mm, central beam height: 50mm)		11000412
Support for **solid samples** (dimensions 50 x 30 x 2 mm), **one position**		11000422
NEW Support for **solid samples** (dimensions 50 x 30 x 2 mm), **two positions**		11001152
8 position automatic cell holder for up to **10 mm** optical path square cuvettes		11000242
5 position automatic cell holder for **10mm-100mm** optical path cuvettes		11000432
Test tube holder **Ø 16mm**, max height: 90mm, central beam height: 45mm		11000532

CUVETTES FOR VISIBLE LIGHT - RANGE 320 - 1400 nm

	Description	Dimensions (L x W x H) mm	Volume ml	p/n
	Special **optical** glass cuvettes, **1 mm** optical path. 2-piece set	12,5 x 3,5 x 45	0,4	11000382
NEW	Special **optical** glass cuvettes, **2 mm** optical path length. Set of 2 pieces	12,5 x 5 x 45	0,75	11001172
NEW	Special **optical** glass cuvettes, **3 mm** optical path length. Set of 2 pieces	12,5 x 6 x 45	1,1	11001182
NEW	Special **optical** glass cuvettes, **5 mm** optical path length. Set of 2 pieces	12,5 x 8 x 45	1,8	11001192
	Special **optical** glass cuvettes, **10 mm** optical path. 4-piece set	12,5 x 12,5 x 45	3,5	11000252
	Special **optical** glass cuvettes, **20 mm** optical path. 4-piece set	12,5 x 22,5 x 45	7	11000262
	Special **optical** glass cuvettes, **30 mm** optical path. 4-piece set	12,5 x 32,5 x 45	10,5	11000272
	Special **optical** glass cuvettes, **50 mm** optical path. 4-piece set	12,5 x 52,5 x 45	17,5	11000282
	Special **optical** glass cuvettes, **100 mm** optical path. 4-piece set	12,5 x 102,5 x 45	35	11000292
	Flow cuvette made of special **optical** glass, optical path **10 mm** Beam height at 15 mm. **Micro-cell holder required cod.11000232**	12,5 x 12,5 x 45	0,7	11000492

QUARTZ CUVETTES FOR UV - RANGE 190 – 1400 nm

	Description	Dimensions (L x W x H) mm	Volume ml	p/n
	Quartz glass cuvettes, **1 mm** optical path. 2 pieces	12,5 x 3,5 x 45	0,4	11000522
NEW	**Quartz** glass cuvettes, **2 mm** optical path. 2 pieces	12,5 x 5 x 45	0,75	11001282
NEW	**Quartz** glass cuvettes, **3 mm** optical path. 2 pieces	12,5 x 6 x 45	1,1	11001292
NEW	**Quartz** glass cuvettes, **5 mm** optical path. 2 pieces	12,5 x 8 x 45	1,8	11001302
	Square **quartz** glass cuvettes, **10 mm** optical path. 2-piece set	12,5 x 12,5 x 45	3,5	11000302
	Quartz glass cuvettes, **20 mm** optical path. 2-piece set	12,5 x 22,5 x 45	7	11000312
	Quartz glass cuvettes, **30 mm** optical path. 2-piece set	12,5 x 32,5 x 45	10,5	11000322
	Quartz glass cuvettes, **50 mm** optical path. 2-piece set	12,5 x 52,5 x 45	17,5	11000332
	Quartz glass cuvettes, **100 mm** optical path. 2-piece set	12,5 x 102,5 x 45	35	11000342

1 mm

10 mm

20 mm

30 mm

50 mm

100 mm

SPECIAL CUVETTES- MICRO-CELLS HOLDER REQUIRED Part. No.11000232

Description	Dimensions (L x W x H) mm	Volume µl	p/n
MICRO quartz glass cuvette, optical path **10 mm**	12,5 x 12,5 x 45	**100**	11000352
MICRO quartz glass cuvette, optical path **10 mm**	12,5 x 12,5 x 45	**200**	11000362
MICRO quartz glass cuvette, optical path **10 mm**	12,5 x 12,5 x 45	**500**	11000372
MICRO quartz glass cuvette, optical path **10 mm**	12,5 x 12,5 x 45	**1000**	11000392
Flow cuvette made of **special optical glass**, optical path **10 mm** (beam height 15 mm)	12,5 x 12,5 x 45	700	11000492
Quartz glass flow cuvette, optical path **10 mm** (beam height 15 mm)	12,5 x 12,5 x 45	700	11000502

Quartz
100-200 µl

Quartz
500-1000 µl

Flow cuvettes

SIPPER and PELTIER SYSTEM

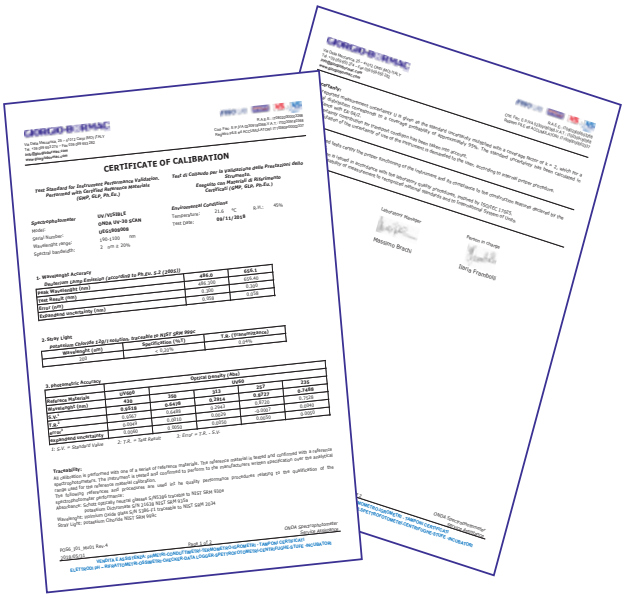
Name	Description	p/n
SIPPER A-1101 FLOWING SYSTEM	Flow cell system, complete with external unit, power cable, connection cable , micro-cell holder, quartz flow cell, silicone flow tubes, adjustable **flow rate from 1 to 8 ml/min.** External dimensions (LxWxH) 170x270x115mm. Weight 3 kg. Power 240 V AC, 50/60 Hz	11000552
PELTIER A-1201 THERMOSTATIC SYSTEM	System for selectable constant temperature range **10-60°C**, complete with outdoor unit, power cable, connection cable, special micro-cell thermostatic stand. External dimensions (LxWxH) 170x270x115mm. Weight 3kg. Power 240 V AC, 50/60 Hz **NO CUVETTE INCLUDED.**	11000562
SIPPER / PELTIER A-1001 COMBINED SYSTEM	Selectable constant temperature and flow cell system. **Range 10-60°C, flow rate adjustable from 1 to 8 ml/min.** Complete with external unit, power cord, connection cable, special thermostatically finned micro-cell holder, quartz flow cell, silicone flux tubes. External dimensions (LxWxH) 170x270x115mm. Weight 3 kg. Power supply 240 V AC, 50/60 Hz	11000572

CALIBRATION REPORT

All Onda spectrophotometers are supplied with a calibration report performed according to ISO 17025 requirements, to measure with traceability, with ISO 17034 certified reference materials.

The calibration report shows:

- **WAVELENGHT ACCURACY**
- **PHOTOMETRIC ACCURACY**
- **STRAY LIGHT TEST**
- **MEASUREMENT UNCERTAINTY**
- **TRACEABILITY STATEMENT**


CERTIFICATE OF CALIBRATION

V-10 PLUS

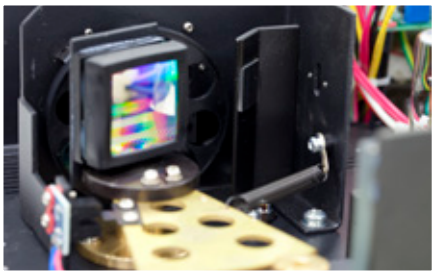
- VISIBLE Single beam
- Working range *325 - 1000 nm*
- Bandwith *4 nm*

VISIBLE single beam spectrophotometer.
Single beam optical system, 4 nm bandwidth, Tungsten lamp.
LCD display, membrane keypad.

Spectral resolution 0.1 nm,
Photometric accuracy ±0.5%T,
Photometric precision ±0.3%T.
Photometric range 0...200%T, -0.3...3Abs, 0...1999Conc.

Functions: Transmittance, Absorbance, Concentration, Coefficients

External dimensions (LxWxH) 490x360x210mm. Weight 12 kg.
Power supply 100 - 240 V AC, 50/60 Hz. Power 75 W.



Monochromator:
1200 lines/mm reticle

Supplied with:
Slide cell holder for 4 x 10 mm o.p. cuvettes, 4 x 10 mm special optical glass square cuvettes, EU power cord, MWave Basic Software (allowing Quantitative, Single λ Photometric, Kinetic analysis), dust cover, calibration report.

Name	Range	Bandwidth	Beam	Source	p/n
V-10 PLUS	325 - 1000 nm	4 nm	Single	Tungsten	11000052

ACCESSORIES FOR V-10 PLUS

Name	Description	p/n
MWAVE PROFESSIONAL SOFTWARE	For OS Windows, it includes the functions: **Photometry, Quantitative, Kinetics, Multi-wavelength, Spectrum scan, DNA/protein (UV methods), Wine color analysis.** Includes USB installation key, USB cable, USB dongle user license, user manual	11000962
MICRO PRINTER RS 232	Thermal paper, supplied with power supply, connection cable, paper roll	11000452
IQ-OQ MANUAL	IQ-OQ manual for ONDA spectrophotometer.	11000192
VISIBLE SOURCE REPLACEMENT LAMP	VISIBLE range Source. Tungsten-Halogen Lamp. **Horizontal filament. Compatible with V-10 Plus, UV-20 and UV-30 Scan models**	11000912
ADAPTER TUBES 1 mm	Adaptor 10x10 for optical path tubes 1 mm **Min. quantity order: 2 pcs**	11000582
NEW **ADAPTER** CUVETTES 1 - 3 mm	Adapter (12.5 x 12.5 x 45 mm) for 1 - 3 mm optical path cuvettes. 1-piece set	11001162

SUPPORTS

Description	p/n
Cell support **4 positions**, optical path cuvettes up to **10 mm**	11000202
Cell support **4 positions**, optical path cuvettes up to **50 mm**	11000212
Cell support **4 positions**, optical path cuvettes up to **100 mm**	11000222
Microcell holder, **15 mm** beam height, one position	11000232
Cell holder for test tubes (**Ø 8 to 24 mm, max. height 100 mm, radius height 45 mm**), for V-10 PLUS only	11000402
Support for **5° reflectance measurements** (20 x 20 x 4 mm sample)	11000412
Support for **solid sample** (size 50 x 30 x 2 mm), one position	11000422

CUVETTES FOR VISIBLE - RANGE 320 - 1400 nm

	Description	Dimensions (W x L x H) mm	Volume ml	p/n
	Special **optical** glass cuvettes, **1 mm** optical path. 2-piece set	12,5 x 3,5 x 45	0,4	11000382
NEW	Special **optical** glass cuvettes, **2 mm** optical path. 2-piece set	12,5 x 5 x 45	0,75	11001172
NEW	Special **optical** glass cuvettes, **3 mm** optical path. 2-piece set	12,5 x 6 x 45	1,1	11001182
NEW	Special **optical** glass cuvettes, **5 mm** optical path. 2-piece set	12,5 x 38x 45	1,8	11001192
	Square cuvettes made of special **optical** glass, optical path **10 mm**. 4-piece set	12,5 x 12,5 x 45	3,5	11000252
	Special **optical** glass cuvettes, **20 mm** optical path. 4-piece set	12,5 x 22,5 x 45	7	11000262
	Special **optical** glass cuvettes, **30 mm** optical path. 4-piece set	12,5 x 32,5 x 45	10,5	11000272
	Special **optical** glass cuvettes, **50 mm** optical path. 4-piece set	12,5 x 52,5 x 45	17,5	11000282
	Special **optical** glass cuvettes, **100 mm** optical path. 4-piece set	12,5 x 102,5 x 45	35	11000292
	Flow cuvette made of special optical glass, optical path **10 mm** (beam height at 15 mm). **Micro-cell holder required cod.11000232**	12,5 x 12,5 x 45	0,7	11000492

1 mm

10 mm

20 mm

30 mm

50 mm

100 mm

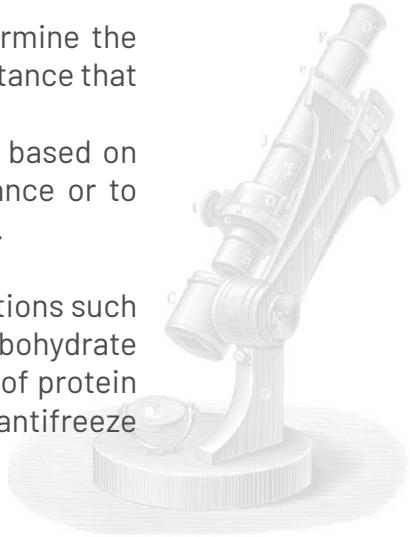
ONDA brochure is available on our website
www.giorgiobormac.com

REFRACTOMETERS

WARRANTY 2 YEARS

A refractometer is an optical measuring instrument used to determine the refractive index of a substance, or some physical property of a substance that is directly related to its refractive index.
It can be used to establish the identity of an unknown substance based on its refractive index, to establish the purity of a particular substance or to determine the concentration of one substance dissolved in another.

Commonly the refractometers are used to measure fluid concentrations such as the sugar content (Brix level) of fruits, vegetables, juices and carbohydrate drinks or for cutting fluids, specific gravity of urine, concentration of protein in the blood, degree of moisture in the honey (myelometer), salinity, antifreeze properties, industrial fluids.



DBR 95

- **Measuring range** *0,0..95,0 % Brix*
- **Simultaneous display** of brix, temperature and refractive index

Portable and benchtop digital refractometer.
Automatic temperature compensation.
Self-calibrating system with distilled water.
Sample volume 1ml.
Programmable MIN/MAX alarm thresholds.
Powered by 3,7 V rechargeable battery.

Working range
BRIX= 0,0..95,0 % Brix (±0,3 %),
Refractive index = 1,3330...1,5318 nD,
Temperature = 0..40 °C (±0,1 °C).

Always equipped with:
Carrying case, power supply and USB cable, user manual.

Name	Description	Measuring range	Accuracy	p/n
DBR 95	Benchtop digital refractometer	0,0 - 95,0 % Brix	±0,3 %	44000063

DBR 55 / DBR SAL

- **Measuring range:** *0,0..55,0 % Brix*
- **Salinity measuring range:** *0,0..28,0 % NaCl*

Portable and bench-top waterproof digital refractometer.
Backlit display.
Automatic temperature compensation 10.0..60.0 °C.
Self-calibrating with water. 0.5 ml sample volume.
Stores up to 20 measurements, with cyclic memory.
Rubber shell and hard case.

Power supply 2 x 1.5 V (AAA Alkaline).
Dimensions 58 x 36 x 122 mm. Weight 150 g.

Name	Description	Measuring range	Accuracy	p/n
DBR 55	Digital refractometer	0,0..55,0 % Brix	±0,2 %	44000073
DBR SAL	Salinity digital refractometer	0,0..28,0 % NaCl	±0,2 %	44000053

DBR WINE

- **Measuring range** 0,0..55,0 % Brix

Portable and bench-top waterproof digital refractometer. Backlit display.
Automatic temperature compensation 10.0..60.0 °C.
Self-calibrating with water.
Sample volume 0.5 ml. Rubber shell and hard case.
Power supply 2 x 1.5 V (AAA Alkaline). Dimensions 58 x 36 x 122 mm. Weight 150 g.

RANGE	Measuring range	Resolution
Brix	0.0 ~ 55.0%	0,1 %
Temperature	0°C ~ 70°C	0,1 °
Bé (Baumé)	0.0° ~ 29.8°	0,1 °
Babo	0.0° ~ 46.4°	0,1 °
Oe (Oechsle)	0° ~ 256°	1 °
TAVP *	0.0% - 37,9%	0,1 %

* ALCOHOL CONTENT BY VOLUME

Name	Description	Measuring range	Accuracy	p/n
DBR WINE	Benchtop digital refractometer	0,0..55,0 % Brix	±0,2 %	44000093

DBR COFFEE

App HMCoffee

- **Measuring range** 0,00..26,00 % Brix
- **Bluetooth connection:** *downloadable App for data storage.*

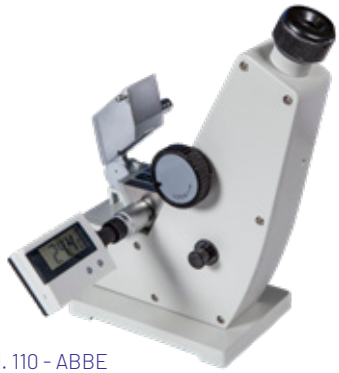
Portable and bench-top waterproof digital refractometer. Backlit display.
Automatic temperature compensation 10.0..60.0 °C.
Self-calibrating with water. Sample volume 0.5 ml.
Rubber shell and hard case. Power supply 2 x 1.5 V (AAA Alkaline).
Dimensions 58 x 36 x 122 mm. Weight 150 g.

Measuring range
BRIX= 0,00..26,00 % Brix (±0,20 %),
TDS= 0,00..23,00 % TDS (±0,1 %),
Temperature = 0..70 °C (±0,1 °C).

Name	Description	Measuring range	Accuracy	p/n
DBR COFFEE	Benchtop digital refractometer	0,00..26,00 % Brix	±0,20 %	44000083

OPTICAL REFRACTOMETERS

Lid with led



mod. 110 - ABBE

All refractometers are supplied with hard case and calibration screwdriver.

Name	Measuring range	Features	p/n
110 ABBE	Brix: 0,0 - 95,0 % (±0,25%) nD: 1,3000 - 1,7000 (±0,0002)	Bench refractometer with thermostatable prism. Complete with digital thermometer and calibration prism	43000133
THERMOMETER DIGITAL FOR ABBE	Replacement thermometer for Abbe 110		43000153

Name	Measuring range (% BRIX)	Features	p/n
101	Brix: 0-32 % (±0,2%)		43000013
101 ATC	Brix: 0-32 % (±0,2%)	Automatic temperature compensation	43000103
101 ATC LED	Brix: 0-32 % (±0,2%)	Automatic temperature compensation	43000203
102	Brix: 28-62% (±0,2%)		43000023
103	Brix: 0-80 % (±0,5%)		43000033
103 LED	Brix: 0-80 % (±0,5%)		43000223
104 HONEY	Brix : 58-92% Water : 12-27% Be : 38-43°	Triple scale refractometer	43000043
105 CLINIC	Serum : 0-12 g/dL Urine specific gravity:1000 - 1050 nD Refraction index:1,3330 - 1,3600	Triple scale refractometer	43000053
106 SALINITY	Sodium Chloride: 0-28% (±0,2%)		43000063
106 ATC SALINITY	Sodium Chloride: 0-100 ‰ Specific gravity: 1000-1070	Double scale refractometer Automatic temperature compensation	43000113
107 ATC WINE	Brix: 0-35 % Babo: 0-28%	Double scale refractometer Automatic temperature compensation	43000123
107 ATC LED WINE	Brix: 0-35 % Babo: 0-28%	Double scale refractometer Automatic temperature compensation	43000233
414 ATC ANTIFREEZE BATTERIES	Ethylene glycol: -50 °C / 0 °C Propylene glycol:-50 °C / 0 °C Cleaner: -40 °C / 0 °C Batteries fluid: 1.10 / 1.40 sg.	Automatic temperature compensation	43000173
UREA	Brix: 0-40 %	Signal mark at 32,5% Brix	43000193

Accessories		p/n
LID	Spare part lid for telescope refractometers without lighting	43000163
LID WITH LED	Spare part lid with LED lighting It allows a perfect reading even if there's low or no lighting The cover is interchangeable and can be installed on all the optical refractometers models.	43000003

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32208033	KNO3 1M Electrolyte solution for XS Sensor STANDARD Ag, package 55 ml	60	
32208043	XS Sensor STORAGE Solution, package 55 ml	60	
32208053	XS Sensor STORAGE Solution, package 500 ml	60	
32208063	PROTEIN CLEANING Solution (pepsin) for XS Sensor, package 55 ml	60	
32208073	DIAPHRAGM CLEANING solution (thiourea) for XS Sensor, package 55 ml	60	
32208083	REGENERATION Solution for XS Sensor pH electrode, package 55 ml	60	
32208093	PROTEIN CLEANING Solution (pepsin) for XS Sensor, bottle 250 ml	60	
32208103	DIAPHRAGM CLEANING solution (thiourea) for XS Sensor, bottle 250 ml	60	
32208113	KCl 3M + AgCl Solution 55 ml	60	
32382903	1x55 ml XS buffer solution pH 10,01 ± 0,02 / 25°C colourless, without certificate	57	
32383123	1x55 ml XS buffer solution pH 4,01 ± 0,02 / 25°C red color, without certificate	57	
32383133	1x55 ml XS buffer solution pH 7,00 ± 0,02 / 25°C green color, without certificate	57	
32383143	1x55 ml XS buffer solution pH 9,00 ± 0,02 / 25°C blue color, without certificate	57	
32383153	Standard Redox 475mV 1 x 55 ml	57	
32383163	1x55 ml XS buffer solution ORP-Redox mV465 ± 10mV /25°C yellow/brown color, without certificate	59	
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40005012	MULTISPIN 12, Mini Microcentrifuge	90	
40100202	Neya 5 Ventilated bench-top centrifuge fixed and swing-out hybrid rotor	86	
40100302	NEYA 8 Ventilated centrifuge BASIC, 4x175 ml, 6000rpm	79	
40100312	NEYA 10 Ventilated centrifuge PROFESSIONAL, 4x175 ml, 6000rpm, 10 Programs	80	
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40100622	Insert I 7-10 (7 collection tubes 10ml) for buckets B 175. Set of 4 pcs.	82	
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40100862	Fixed angle rotor A 6-50 HIGH SPEED 6 tubes 50ml, supplied with Biosafe lid ONLY for NEYA 16-16R	85	
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40101582	B 2-50R carrier for 2 round bottom tubes 50 ml. For rotor S 4-175 (min. 4 pieces). One piece	83	
40101592	B 7-15R carrier for 7 round bottom tubes 15 ml. For rotor S 4-175 (min. 4 pieces). One piece	83	
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40110112	Swing-out rotor with 15 ml and 50 ml carrier, tube-holder included (Neya 5)	86	
40110122	"Fixed and swing-out angle rotor with 10 ml carrier and 5,7 ml reducer vacutainer tubes, tube holder and reducers included (Neya 5)"	86	
40110302	Fixed angle kit equipped with 15 ml carrier (set of 4 pcs) and 50 ml carrier (set of 4 pcs) complete with tube holder (Neya 5)	86	
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41102072	Universal platform with nr. 4 adjustable bars for SKI 8 R	99	
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41102112	Holed platform for flask clips	98	
41102122	Perforated support for fixing clips for SKI 8 R	99	
41102132	Fixing clip for flask volume 100 ml for SKI 4	98	
41102142	Fixing clip for flask volume 200/250 ml for SKI 4	98	
41102152	Fixing clip for flask volume 500 ml for SKI 4	98	
41102162	Fixing clip for flask volume 1000 ml for SKI 4	98	
41102172	Fixing clip for flask volume 2000 ml for SKI 4	98	
41102302	Set of 2 tubes of 2 meters with insulating material (working range -40 ÷ +60 °C), complete with metal clamps	120	
41102312	Set of four swivelling wheels, two of which brakeble	120	
41102322	Premixed thermal fluid ready to use, working range -30 ÷ + 80 ° C. Tank box 5 litres with plastic tap	120	
41110142	diam. 50 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)	105	
41110152	diam. 25 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)	105	
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50121842	XS PC 7 NEX portable multiparameter - Cell 2301 T - without electrode	33	
50121852	XS PC 7 NEX portable multiparameter - Without electrode - without cell	33	
50122112	XS PC 70 NEX portable multiparameter - Elctrode 201 T DHS - Cell 2301 T	32	
50122122	XS PC 70 NEX portable multiparameter - Electrode 201 T - Cell 2301 T	32	
50122142	XS PC 70 NEX portable multiparameter - Cell 2301 T - Without electrode	32	
50122152	XS PC 70 NEX portable multiparameter - Without electrode - Without cell	32	
50122412	XS pH2 NEX portable multiparameter - Electrode 201 T DHS - ORP	31	
50122422	XS pH2 NEX portable meter - Electrode 201 T - ORP	31	
50122442	XS pH2 NEX portable multiparameter - ORP - Without electrode	31	
50122712	XS pHDO NEX portable multiparameter - Electrode 201 T DHS - 3 m optical sensor	30	
50122732	XS pHDO NEX portable multiparameter - Electrode 201 T/3 m - 3 m optical sensor	30	
50122772	XS pHDO NEX portable multiparameter - without pH electrode and LDO sensor, with probe NT55, S7 BNC cable and accessories	30	
51000202	PT56L	138	
51000212	PT56C, For contact measurements, mm 200x5	138	
51000222	PT56P, Penetration measurements, mm150x4	138	
51000232	PT56A, For measurement in air, mm200x4	138	
51000242	PT56L 1/5 DIN, For measurements in liquids, mm 200x3	138	
51000252	PT56 TFE, Teflon cable ideal for oven and freezer, mm 100x4	138	
51000262	PT56/500, For measurements in liquids, mm 500x6	138	
51000272	PT56/1000, For measurements in liquids, mm 1000x6	138	
51000292	PT 56 TFE 1/5 DIN for measurements in liquids and air 100 x 4mm	138	
51000752	3K220, For measurements in liquids/air, mm 200x2	139	
51000762	3K320, mm 200x3	139	
51000772	3K350, mm 500x3	139	
51000782	3K6100, mineral oxide folding probe, mm 1000x6	139	
51000792	3K650, mineral oxide folding probe, mm 500x6	139	
51000802	3K520C, For contact measurements , mm200x5	139	
51000812	3K1200, Wire manipulable probe, mm 2000x2	139	
51000822	3K6120, mineral oxide folding probe, mm 1200x6	139	
51000832	3K415P, Penetration measurements, mm150x4	139	
51000902	3T320, For measurements in liquids/air, mm 200x3	140	
51000912	3T415, Penetration measurements, mm150x4	140	
51000922	3T520C, For contact measurements , mm200x5	140	
51000932	3T420A, For measurement in air, mm200x4	140	
51000942	3T215, Penetration measurements, mm150x2	140	
51000952	3T210, Ideal for oven and freezer, mm 100x2,5	140	

p/n	Description	Pag.	
51004132	REDOX combined electrode, cable lenght 3 m.	29	
51100033	1x250 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with N.I.S.T certificate	58	
51100043	1x250 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with N.I.S.T certificate	56	
51100053	1x250 ml XS buffer solution pH 9,00 ± 0,02 / 25°C blue color with N.I.S.T certificate	58	
51100063	1x250 ml XS buffer solution pH 10,01 ± 0,02 / 25°C colourless with N.I.S.T. certificate	58	
51100073	1x250 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with N.I.S.T certificate	58	
51100133	1x500 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with N.I.S.T certificate	58	
51100143	1x500 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with N.I.S.T certificate	58	
51100153	1x500 ml XS buffer solution pH 9,00 ± 0,02 / 25°C blue color with N.I.S.T certificate	58	
51100163	1x500 ml XS buffer solution pH 10,01 ± 0,02 / 25°C colourless with N.I.S.T. certificate	58	
51100173	1x500 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with N.I.S.T certificate	58	
51100233	1x5Lt XS buffer solution pH 4,01 ± 0,01 / 25°C red color with N.I.S.T certificate	58	
51100243	1x5Lt XS buffer solution pH 7,00 ± 0,01 / 25°C green color with N.I.S.T certificate	58	
51100253	1x5Lt XS buffer solution pH 9,00 ± 0,02 / 25°C blue color with N.I.S.T certificate	58	
51100263	1x5Lt XS buffer solution pH 10,01 ± 0,02 / 25°C colourless with N.I.S.T certificate	58	
51100273	1x5Lt XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with N.I.S.T certificate	58	
51100303	1x250 ml XS Redox/ORP 200 mV ± 5mV / 25°C (dark bottle)	59	
51100313	1x250 ml XS Redox/ORP 475 mV ± 5mV / 25°C	59	
51100323	1x500 ml XS Redox/ORP 475 mV ± 5mV / 25°C	59	
51100333	1x5Lt XS Redox/ORP 650 mV ± 5mV / 25°C (Politainer Cubibox)	59	
51100503	1x300 ml XS Conductivity Standard 1,3 µS/cm ± 0,1 / 25°C glass bottle with N.I.S.T certificate	59	
51100513	1x300 ml XS Conductivity Standard 5 µS/cm ± 0,1 / 25°C glass bottle with N.I.S.T certificate	59	
51100613	1x500 ml XS Conductivity Standard 84 µS/cm ± 1% / 25°C with N.I.S.T certificate	59	
51100623	1x500 ml XS Conductivity Standard 147 µS/cm ± 1% / 25°C with N.I.S.T certificate	59	
51100633	1x500 ml XS Conductivity Standard 1413 µS/cm ± 1% / 25°C with N.I.S.T certificate	59	
51100643	1x500 ml XS Conductivity Standard 12'880 µS/cm ± 1% / 25°C with N.I.S.T certificate	59	
51102013	1x20 SACHET 25ml pH 4,01 ± 0,01 / 25°C (red), with Certificate of Analysis	57	
51102023	1x20 SACHET 25ml pH 7,00 ± 0,01 / 25°C (green), with Certificate of Analysis	57	
51102043	1x20 SACHET 25ml pH 10,01 ± 0,02 / 25°C (yellow), with Certificate of Analysis	57	
51102053	1x20 SACHET 25ml EC 1413 µS/cm ± 1% / 25°C, with Certificate of Analysis	57	
51102063	1x20 SACHET 25ml EC 12880 µS/cm ± 1% / 25°C, with Certificate of Analysis	57	
51102073	1x20 SACHET 25ml EC 84,0 µS/cm ± 1% / 25°C, with Certificate of Analysis	57	
51102083	1x20 SACHET 10ml STORAGE Solution for pH/ORP sensor	57	
51102093	1x20 SACHET 25ml Distilled Water	57	
51102203	Set CAL pH BIS 1x20 SACHET 25ml (10 x pH 4.01/7.00)	57	
51102213	Set CAL pH TRIS 1x20 SACHET 25ml (7 x pH 4.01/7.00 + 6 x pH 10.01)	57	
51102223	Set CAL COND 1x20 SACHET 25ml (10 x EC 1413/12880 µS/cm)	57	
51102233	Set CAL PC 1x20 SACHET 25ml (7 x pH 4.01/7.00 + 6 x EC 1413 µS/cm)	57	
51102243	Set REFILL pack for pH 1x20 SACHET 25ml (6 x pH 4.01/7.01/H2O + 2 x Storage 10ml)	57	
51102253	Set REFILL pack for COND 1x20 SACHET 25ml (7 x EC 1413/12880 µS/cm + 6 x H2O)	57	
51102263	Set REFILL pack for PC 1x20 SACHET 25ml (5 x pH 4.01/7.01/EC 1413 µS/cm + 3 x H2O + 2 x Storage 10ml)	57	
51102283	Set REFILL pack for pH / H2O 25 ml (6x pH 4, pH 7, pH 10 + 2x H2O	57	
51300003	1x250 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with DAKKS certificate	56	
51300013	1x250 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with DAKKS certificate	56	

p/n	Description	Pag.	
51300023	1x250 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with DAKKS certificate	56	
51300033	1x250 ml XS buffer solution pH 10,01 ± 0,02 / 25°C yellow with DAKKS certificate	56	
51300103	1x500 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with DAKKS certificate	56	
51300113	1x500 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with DAKKS certificate	56	
51300123	1x500 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with DAKKS certificate	56	
51300133	1x500 ml XS buffer solution pH 10,01 ± 0,02 / 25°C yellow with DAKKS certificate	56	
51300303	1x300 ml XS Conductivity Standard 1,3 µS/cm ± 0,1 / 25°C glass bottle with DFM certificate	56	
51300313	1x300 ml XS Conductivity Standard 5 µS/cm ± 0,1 / 25°C glass bottle with DFM certificate	56	
51300323	1x500 ml XS Conductivity Standard 84 µS/cm ± 1% / 25°C with DFM certificate	56	
51300333	1x500 ml XS Conductivity Standard 147 µS/cm ± 1% / 25°C with DFM certificate	56	
51300343	1x500 ml XS Conductivity Standard 1413 µS/cm ± 1% / 25°C with DFM certificate	56	
51300353	1x500 ml XS Conductivity Standard 12'880 µS/cm ± 1% / 25°C with DFM certificate	56	
52000302	UR 100 Thermohygrometer	142	
60000423	1x55 ml XS buffer solution 1413 µS/cm ± 1% / 25°C colourless, without certificate	57	
60000433	1x55 ml XS buffer solution 12'880 µS/cm ± 1% / 25°C colourless, without certificate	57	
60000613	1x55 ml XS buffer solution 84 µS/cm ± 1% / 25°C colourless, without certificate	57	
70100503	mini T Temperature datalogger	141	
70100513	mini T1 D Temperature datalogger	141	
70100523	mini TH Temperature and humidity datalogger	141	
70100533	mini TB with rpobe	141	
70101003	mini 1way Single trip temperature datalogger programmable on request (pack of 10 pcs)	141	
70101013	mini 1way Single trip temperature datalogger (pack of 10 pcs)	141	
70101043	mini 1way LCD (pack of 10 pcs)	141	
70109993	DBAT mini replacement batteries	141	

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