

No.1/2022

Issuer's Name: Giorgio Bormac S.r.l.

Issuer's address: Via Della Meccanica, 25 41012 Carpi (MO) ITALY

Object of the declaration: USB temperature and humidity data logger.

- **Declares under the sole responsibility that the product as originally delivered**

Product names:

mini TB



mini 1 Way LCD



- **Product Options:** This declaration covers all options of the above products

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

Documents No.	Title
EMC directive: 2014/30/UE	<i>Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to electromagnetic compatibility.</i>
Directive 2011/65/UE (RoHS)	<i>Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment</i>

- **and conforms with the following standards:**

Documents No.	Title
EN 55022:2010	<i>Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement.</i>
EN 55024:2010	<i>Information technology equipment Immunity characteristics. Limits and methods of measurement.</i>
EN 12830:2018	<i>Temperature recorders for the transport, storage and distribution of temperature sensitive goods - Tests, performance, suitability</i>

Signed for and on behalf of:

Giorgio Bormac S.r.l.

Rosanna Orlandi - Legal representative

Name, function



R.A.E.E.: IT0802000003268
Cod. Fisc. E.P.IVA - V.A.T.: IT02309180368
Registro PILE ed ACCUMULATORI: IT10080P00002337

Place and date of issue

Carpi 23 June 2022

Signature

No.9/2019

Issuer's Name: Giorgio Bormac S.r.l.

Issuer's address: Via Della Meccanica, 25 41012 Carpi (MO) ITALY

Object of the declaration: USB temperature and humidity data logger.

- **Declares under the sole responsibility that the product as originally delivered**
- **Product names:**

Product names:

XS mini T



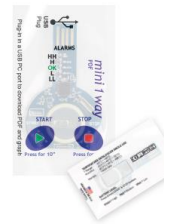
XS mini T1



XS mini TH



XS mini 1 way



- **Product Options:** This declaration covers all options of the above products

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

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Signed for and on behalf of:

Giorgio Bormac S.r.l.

Rosanna Orlandi - Legal representative

Name, function

Place and date of issue

Carpi 10 October 2019

Signature

rev.0 16.04.2020



XS EN12830

Declaration of Conformance

This declaration applies to the following zLogg data loggers:

- XS mini 1 way
- XS mini T, XS mini T1, XS mini TH

4.1	The means of temperature measurement used by the recorder shall be independent of any temperature measurement which is used to control the refrigerating system.	All are stand alone, battery powered devices.
4.2	The measurement range of the sensors must be: <ul style="list-style-type: none">• <-25 °C• >15 °C• with minimum span of 50°C	All our data loggers exceed this requirement.
4.3	The time and date of the beginning shall be readable and any settings which configure the recording shall be protected against un-authorized or accidental modification.	All readings are time and date stamped. Access to data and configuration is controlled by password so that only authorized users can have access.
4.4.1	At least the time and temperature shall be recorded. The place of measurement has to be indicated.	Temperature, humidity and time are stored in the data. The location of measurement can be entered in the logger's description or written on the logger.
4.4.2	It shall be possible to identify and consult the charts and the recorded data. Records shall be available for at least one year.	All records are identified and stored on the user's system indefinitely. Appropriate back up procedures should be used to ensure the safety of the data.



XS EN12830

Declaration of Conformance

4.5	Devices with an autonomous power supply shall be marked as such with an indication of the temperature range. An indication of battery life is desirable.	Temperature range is indicated on the back label of the data logger. The battery status is indicated by LED or on the LCD, as well as in software.
4.6	The degree of protection shall be at least IP20, IP55 or IP65 for different environments.	<ul style="list-style-type: none"> • XS mini T/T1: IP65 • XS mini 1 way: IP65 • XS mini TH: IP30
4.9.2.1	Under rated operating conditions the recorder shall have a maximum error of $\pm 1^{\circ}\text{C}$ and a resolution of better than $\pm 0.5^{\circ}\text{C}$.	All zLogg data loggers exceed this specification.
4.9.2.2	The maximum recording interval for transport shall be 5m for recording durations shorter than 24Hrs and 15m for 1-7 days and 60m for durations longer than 7 days. For storage, the recording interval shall be 60m	The recording interval is fully programmable at the issue stage to accommodate all the stated applications.
4.9.2.3	The manufacturer shall specify the recording capacity as either duration at a given interval or as a number of readings.	The recording duration is displayed when the sample interval is selected in the software.
4.9.2.4	The maximum relative timing error is 0.2% of the recording duration when the date is reset up to 31 days and 0.1% of the recording duration including the error of the date and time when the date is reset after 31 days.	All zLogg data loggers meet or exceed this specification.



XS EN12830

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4.9.2.5	The response time for the recorders with an external sensor is a maximum of 10 minutes for transport and a maximum of 20 minutes for storage. For internal sensors a maximum 60 minutes applies.	All response times meet this requirement.
4.9.3.1 Table 3B	The standard operating range is -30 to +65 °C operationally and -40 to +85 °C for storage.	All zLogg data loggers meet or exceed these requirements.
4.9.3.1	The equipment shall withstand vibration from 5Hz to 8.6 Hz 10mm amplitude and 8.6Hz to 150 Hz acceleration of 3g.	All zLogg data loggers meet or exceed these requirements.
4.1.0	The data shall be protected against alteration.	The data cannot be altered on the data logger.