S-Micro XL

S-Micro XL is a temperature data logger from -40°C to 220°C (standard calibration from 25°C to 140°C, calibrable from 0°C to 220°C, only the probe will resist above 140°C) with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), managed with Windows software and USB interface. **Battery is user replaceable** and the data logger is **provided with an Accredia** (NIST equivalent) **traceable cetificate** on 6 points.

The version for up to 100°C only is available too.

It is part of a series of data loggers divided in P-Micro (up to 100°C) and S-Micro (up to 140°C): there are different versions with standard length probes or on demand. P-Micro and S-Micro versions are the smallest loggers for such temperatures available on the market. L and XL versions feature a longer life battery and their operative range is extended (can be calibrated from -40°C; standard calibration range is 25 °C ÷ +100 °C for P-Micro and 25 °C ÷ +140 °C for S-Micro). They require an interface for PC connection: DiskInterface HS, Multibay.

There are also other models of high temperature data loggers, for pressure and humidity too.

Note: if used below -30°C, battery life will be highly reduced.

Applications

Sterilisation

Pasteurisation

Food & Beverages

Pharmaceutical

Healthcare

Medical

Laboratories

Validation

Main features

- With different lengths rigid probe for penetration
- Completely food grade and waterproof
- **All software calculate lethality value (F0, PU, A0 ecc.)**
- Low battery consumption for an extended battery life
- User replaceable battery (**software shows battery status**)
- Very easy to deploy in any type of package
- Accredia (NIST equivalent) traceable calibration certificate included
- Available **extended calibration from -40°C to 220°C** (order extra calibration points; in case of wide calibration range the accuracy might be worse)
- **Heat protections available for use above 140°C**

Plus

- Extremely high accuracy and precision: with an accuracy of ± 0,1°C these devices can be employed in any application involving food, pharmaceuticals, validation, laboratory and medical field
- Fast response time thanks to the 3 mm diameter probe
- Printed reports compliant with health regulations and ISO (data are not editable in the software)
- Thanks to its reduced diameter it can be easily used in the narrow pasteurisation tunnels, especially for fresh filled pasta

The system

The system is made up by:

- S-Micro XL temperature data logger

- DiskInterface HS or Universal Multibay
- SPD software or TS Manager software (compatible with the FDA 21 CFR Part 11 regulation)

Accessories

- SPD
- TS Manager
- DiskInterface HS
- Universal multibay
- Locking bolt
- Fastening system
- Teflon protective tube
- S-Micro XL / S-MicroW XL heat protection 1
- S-Micro XL / S-MicroW XL heat protection 2
- P-Micro XL, S-Micro XL battery kit

Technical specifications

Dimensions	64 h X 17 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) - Probe 20/50/100/150 l X 3 Ø (mm) - Probe l on demand X 3 Ø (mm) (l on demand: min. 10 mm / max. 175 mm. For longer probes ask for quotation)
Weight	57 gr
Materials	Stainless steel AISI316L, PEEK
Temperature range	-40°C ÷ +140°C
Sensor temperature range	-40 °C ÷ +220 °C
Standard calibration points (temperature)	25/50/75/100/125/140°C
Extra calibration points (temperature)	Within the range -40 °C ÷ +220 °C
Extra calibration points (temperature)	Up to 220°C (using the heat protections)
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (within the calibration range)
Acquisition step	From 1 every second up, with 1 second steps
Protection degree	IP68
Battery life	+17.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)
Accessories	DiskInterface HS, Multibay universale

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