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 reading bay: DiskInterface HS, Multibay. **Battery is user replaceable** and the data logger is **provided with an Accredia** (NIST equivalent) **traceable cetificate** on 6 points.

It is supported by the TS Manager software for validation compatible with the FDA 21 CFR Part 11 and GAMP 5 regulations.

Note: if used below -30°C, battery life will be highly reduced. When device is calibrated above 140°C accuracy and resolution might be less than what declared.

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)
- For calibration over 140°C minimum probe length 140 mm
- **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
- MicroW XL, S-Micro XL heat protection 1
- MicroW XL, S-Micro XL heat protection 2
- S-Micro XL battery kit
- Universal tool for opening logger

Technical specifications

Dimensions	64 h X 17 Ø (mm)
Probe dimensions	Probe base dimensions 3 h X 14 Ø (mm) - Probe 20/50/100/150/on demand l X 3 Ø (mm) (l on demand: min. 12 mm / max. 175 mm. For longer probes ask for quotation)
Weight	57 g
Materials	Stainless steel AISI316L, PEEK
Temperature range	-40°C ÷ +140°C
Sensor temperature range	-40 °C ÷ +220 °C
Standard calibration points (temperature)	25/50/75/100/121/140°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 type	3.0V lithium user replaceable
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