

S-Micro L



S-Micro L 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 connecting bay: DiskInterface HS, Multibay. **Battery is user replaceable** and the data logger is **provided with an Accredia** (NIST equivalent) **traceable certificate** 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.

Main features

- Reduced size: 17 mm diameter only
- 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)

Plus

- Extremely high accuracy and precision: with an accuracy of $\pm 0,1^{\circ}\text{C}$ 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 L 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



Applications



Sterilisation



Food & Beverages



Pharmaceutical



Medical



Healthcare



Pasteurisation



Laboratories



Validation

- Fastening system
- Teflon protective tube
- S-Micro L battery kit
- Universal tool for opening logger

Technical specifications

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| Dimensions | 39 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 | 36 gr |
| Materials | Stainless steel AISI316L, PEEK |
| Temperature range | -40°C ÷ +140°C |
| Sensor temperature range | -40 °C ÷ +220 °C |
| Standard calibration points (temperature) | 25/50/75/100/121/140°C |
| Extra calibration points (temperature) | Within the range -40 °C ÷ +220 °C |
| Temperature resolution | 0,01 °C |
| Temperature accuracy | ± 0,1 °C (within the calibration range) |
| Memory (n. of acquisitions) | 20.224 |
| Acquisition step | From 1 every second up, with 1 second steps |
| Protection degree | IP68 |
| Battery life | +10.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures) |
| Software&Mobile App | SPD, TS Manager |
| Accessories | DiskInterface HS, Multibay universale |