

S-Micro

S-Micro is a temperature data logger from 0°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. With every S-Micro **a battery kit for battery replacement is included. Battery is user replaceable** and the data logger is **provided with an Accredia (NIST equivalent) traceable certificate** 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 Mini (for P-Micro and S-Micro only, not for L and XL versions), DiskInterface HS and Multibay.

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

Main features

- Extremely reduced size: the smallest volume available for high temperature loggers
- 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 0°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 $\pm 0,1^{\circ}\text{C}$ 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)
- **NO NEED TO DRILL ANY LIDS, NO NEED TO MODIFY YOUR PRODUCT PACKAGING: PROGRAM THE DATA LOGGER, PLACE IT YOU PRODUCT AND START YOUR PROCESS!**



Applications



Food & Beverages



Sterilisation



Pasteurisation



Medical



Pharmaceutical



Validation



Healthcare



Laboratories

The system

The system is made up by:

- S-Micro temperature data logger
- DiskInterface HS Mini or 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 Mini
- DiskInterface HS
- Universal multibay
- Fixing base
- Adhesive rubber for high temperatures
- Locking bolt
- Fastening system
- Teflon protective tube
- S-Micro heat protection 1
- S-Micro heat protection 2
- Battery kit for P-Micro, S-Micro

Technical specifications

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|---|--|
| Dimensions | 14 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 | 13 gr |
| Materials | Stainless steel AISI316L, PEEK |
| Temperature range | 0 °C ÷ +140 °C |
| Sensor temperature range | 0 °C ÷ +220 °C |
| Standard calibration points (temperature) | 25/50/75/100/125/140°C |
| Extra calibration points (temperature) | Within the range 0 °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) |
| Memory (n. of acquisitions) | 20.224 |
| Acquisition step | From 1 every second up, with 1 second steps |
| Protection degree | IP68 |
| Battery life | 560.000 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 Mini, DiskInterface HS, Universal Multibay |



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