

P-Micro L

P-Micro L is a temperature data logger from -40°C to 100°C (calibration from 25°C to 100°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 certificate** on 4 points.

The version for up to 140°C 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



Food & Beverages



Pasteurisation



Validation

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** (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:

- P-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
- Fastening system
- Teflon protective tube
- P-Micro L, S-Micro L battery kit

Technical specifications

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 ÷ +100 °C
Standard calibration points (temperature)	25/50/75/100°C
Extra calibration points (temperature)	Within the range -40 °C ÷ +100 °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



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