

# P-Micro



P-Micro is a temperature data logger from 0°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: DiskInterface HS Mini (for P-Micro and S-Micro only, not for L and XL versions), DiskInterface HS and Multibay. With every P-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 4 points.

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



## Applications



Food & Beverages



Pasteurisation



Validation

## 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** (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)
- **NO NEED TO DRILL ANY LIDS, NO NEED TO MODIFY YOUR PRODUCT PACKAGING: PROGRAM THE DATA LOGGER, PLACE IT IN YOUR PRODUCT AND START YOUR PROCESS!**

## The system

The system is made up by:

- P-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
- Battery kit for P-Micro, S-Micro
- Universal tool for opening logger

## Technical specifications

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 ÷ +100 °C
Standard calibration points (temperature)	25/50/75/100°C
Extra calibration points (temperature)	Within the range 0 °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	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