

MicroW L with thread on demand



MicroW L is a temperature data logger from -40°C to 140°C with an external probe with length on demand with first 10 mm with M5 thread (threaded part is included in probe length) on a 5 mm base (base height is not counted for probe length). **Battery is user replaceable** and the data logger is **provided with an Accredia (NIST equivalent) traceable certificate** on 6 points (standard calibration from 25°C to 140°C, calibrable from -40°C to 250°C, only the probe will resist above 140°C. For calibrations above 140°C probe minimum length is 50 mm).

Note: if used below -30°C, battery life will be highly reduced.



Main features

- With threaded part for quick and easy fixing to surfaces using the included counterbolt (open packages) or with the threaded rivet of the fixing kit (close packages)
- 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 250°C** (order extra calibration points; in case of wide calibration range the accuracy might be worse. Request the possible calibration ranges in advance)
- For calibration over 140°C the minimum probe length is 50 mm

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 pharmaceuticals, food&beverages, validation, laboratory and medical field
- High accuracy even outside the calibration range
- 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)

The system

The system is made up by:

- MicroW L temperature data logger
- DiskInterface HS or Universal Multibay
- TS Manager 3 software (compatible with the FDA 21 CFR Part 11, Annex 11, GAMP 5 regulations)

Accessories

- TS Manager 3
- Tecno Calib
- DiskInterface HS
- Universal multibay
- Locking bolt
- Fastening system
- MicroW L battery kit

Applications



Validation



Sterilisation



Pharmaceutical



Healthcare



Medical



Cosmetics



Laboratories



Food & Beverages



Pasteurisation

Technical specifications

| | |
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| Dimensions | 39 h X 20 Ø (mm) |
| Probe dimensions | Probe base dimensions 5 h X 14 Ø (mm) - Probe I on demand X 3 Ø (mm) with first 10 mm with M5 thread (min. 22 mm / max. 185 mm. For longer probes ask for quotation) |
| Weight | 50 g |
| Materials | Stainless steel AISI316L, PEEK |
| Temperature range | -40°C ÷ +140°C |
| Sensor temperature range | -40 °C ÷ +250 °C |
| Standard calibration points (temperature) | 25/50/75/100/121/140°C |
| Extra calibration points (temperature) | Within the range -40 °C ÷ +250 °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 | TS Manager 3, Tecno Calib |
| Accessories | DiskInterface HS, Multibay universale |