

S-MicroW L Bendable Ultra Freeze



Temperature recording device from -80°C to 140°C with 30 cm bendable probe and 2 mm diameter, managed with Windows software and USB interface (DiskInterface HS, Multibay). **Battery is user replaceable** and the data logger is **provided with an Accredia (NIST equivalent) traceable certificate** on 6 points.

Note: mission max duration at -80°C: 12 hours. Order special -80° batteries for longer processes.



Main features

- With bendable cable to place the device near the packages instead on top and with rigid probe for penetration (first and last 15 mm cannot be bent)
- 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 -80°C to 140°C** (order extra calibration points; in case of wide calibration range the accuracy might be worse. Request the possible calibration ranges in advance)

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, validation, laboratory and medical field
- Ultra Accuracy available ($\pm 0,05^{\circ}\text{C}$)
- High accuracy even outside the calibration range
- Fast response time thanks to the 3 mm diameter probe
- Easy to use even in small and narrow places thanks to the bendable probe
- Printed reports compliant with health regulations and ISO (data are not editable in the software)

The system

The system is made up by:

- S-MicroW L Bendable Ultra freeze 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

Applications



Validation



Sterilisation



Pharmaceutical



Healthcare



Medical



Cosmetics



Laboratories



Food & Beverages



Pasteurisation

- Tecno Calib
- DiskInterface HS
- Universal multibay
- Locking bolt
- Fastening system
- Teflon protective tube
- S-MicroW L battery kit

Technical specifications

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|---|---|
| Dimensions | 39 h X 20 Ø (mm) |
| Probe dimensions | Probe base dimensions 3 h X 14 Ø (mm) - Bendable probe 300/on demand I X 2 Ø (mm) (first and last 15 mm cannot be bent) |
| Weight | 50 g |
| Materials | Stainless steel AISI316L, PEEK |
| Temperature range | -80 °C ÷ +140 °C |
| Standard calibration points (temperature) | -40/-20/0/25/50/75/100/121/140°C |
| Extra calibration points (temperature) | Within the range -80 °C ÷ +140 °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 |