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 a National Reference traceable cetificate** on 6 points.

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



Applications

- Validation
- Sterilisation
- Pharmaceutical
- Healthcare
- Medical
- Cosmetics
- Laboratories
- Food & Beverages
- Pasteurisation

Main features

- With bendable cable to place the device near the packages instead on top and with rigid probe for penetration (first and last 30 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 ± 0,1°C these devices can be employed in any application involving pharmaceuticals, validation, laboratory and medical field
- 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:

- MicroW L Bendable Ultra Freeze temperature data logger
- DiskInterface HS or Universal Multibay
- TS Manager 3 software (compatible with the FDA 21 CFR Part 11 regulation)

Accessories

- TS Manager 3
- Tecno Calib
- DiskInterface HS
- Universal multibay
- MicroW L battery kit

Technical specifications

Dimensions	39 h X 20 Ø (mm)
Probe dimensions	Probe base dimensions 3 h X 14 Ø (mm) - Bendable probe 300/on demand l X 2 Ø (mm) (first and last 30 mm cannot be bent)
Weight	50 g
Materials	Stainless steel AISI316L, PEEK, FKM (o-ring)
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) / ± 0,5 °C (- 80 °C ÷ -40°C without -80°C point)
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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