

# MicroWH L



MicroWH L is a temperature data logger from -40°C to 150°C (standard calibration from 25°C to 150°C) with 20 mm or on demand length external probe (probes cannot be switched) on a 3 mm base (base height is not counted for probe length), 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 certificate** on 6 points.

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



## Main features

- 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
- National Reference traceable calibration certificate included
- 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, 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:

- MicroWH L temperature data logger
- DiskInterface HS or Universal Multibay
- SPD software or TS Manager software (compatible with the FDA 21 CFR Part 11 regulation)

## Applications



Validation



Sterilisation



Pharmaceutical



Healthcare



Medical



Cosmetics



Laboratories



Food & Beverages



Pasteurisation

## Accessories

- SPD
- TS Manager
- Tecno Calib
- DiskInterface HS
- Universal multibay
- Locking bolt
- Fastening system
- Teflon protective tube
- MicroW XL battery kit

## Technical specifications

|   |  |
|---|--|
| Dimensions                                | 39 h X 20 Ø (mm)   |
| Probe dimensions                          | Probe base dimensions 3 h X 14 Ø (mm) - Probe 20/on demand I X 3 Ø (mm) (I on demand: min. 12 mm / max. 175 mm. For longer probes ask for quotation) |
| Weight                                    | 50 g   |
| Materials                                 | Stainless steel AISI316L, PEEK   |
| Temperature range                         | -40°C ÷ +150°C   |
| Sensor temperature range                  | -40 °C ÷ +250 °C   |
| Standard calibration points (temperature) | 25/50/75/100/121/150°C   |
| Extra calibration points (temperature)    | Within the range -40 °C ÷ +150 °C  |
| Temperature resolution                    | 0,01 °C  |
| Temperature accuracy                      | ± 0,1 °C (within the calibration range) / ± 0,05 °C with ultra accuracy option   |
| 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  |