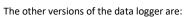
S-MicroW L Ultra Freeze

S-MicroW L Ultra Freeze is a data logger for ultra low temperatures from -80°C to 140°C (calibration from -40°C to 140°C) with 20, 100 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, Multibay). Battery is user replaceable and the data logger is provided with an Accredia (NIST equivalent) traceable cetificate on 6 points.

The data logger looks like the S-MicroW L standard but it includes a calibration from -40°C. With calibration from -40°C it can be used also at -80°C with an accuracy within \pm 0,5 °C within range -80 °C \div -40 °C. If -80 °C is requested to be on the certificate, an extra calibration point for very low temperatures must be purchased. It is particularly indicated for monitoring and validation of ultra freezers.



- · S-MicroW L: with rigid probe of different lengths
- S-MicroW L Flexible: with flexible cable probe and rigid probe at the end
- S-MicroW L Bendable: with semi-rigi metal bendable probe and rigid probe at the end

For each version it is available the XL model too, S-MicroW XL Ultra Freeze, which has same diameter but is higher because it hosts a bigger battery for a longer life time.

There are also other models of high temperature data loggers, for pressure and humidity too.

Note: if used below -30°C, battery life will be highly reduced. Mission max duration at -80°C: 12 hours. Using the logger for long periods below -40°C will constantly reduce mission max duration. For longer missions purchase the -80°C special battery for S-MicroW L Ultra Freeze. With -80°C special battery mission max duration at -80°C with the special battery: 2 months. Using the logger for long periods below -40°C will constantly reduce mission max duration. Max temperature of use of the -80°C battery is 80°C: REMOVE IT AND USE STANDARD BATTERY TO USE THE LOGGER IN AUTOCLVE OR ABOVE 80°C.

Main features

- · With different lengths rigid probe for penetration
- · Completely food grade and waterproof
- · All software calculate lethality value (FO, 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 from -40°C
- · Available extended calibration from -80°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 ± 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
- · Save money on calibration costs with calibration from -40°C included
- High accuracy even from -80°C
- Fast response time thanks to the 3 mm diameter probe



Applications



Validation



Sterilisation



Pharmaceutical



Healthcare



Medical



Laboratories



Food & Beverages



Pasteurisation

• 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 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
- · Tecno Calib
- · DiskInterface HS
- · Universal multibay
- Locking bolt
- Fastening system
- Teflon protective tube
- S-MicroW L battery kit
- \cdot S-MicroW L Ultra Freeze -80°C battery kit

Technical specifications

| Dimensions | 39 h X 20 Ø (mm) |
|---------------------------------------|--|
| Probe dimensions | Probe base dimensions 5 h X 14 Ø (mm) - Probe 20/100 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 |
| | 50 gr |
| Materials | Stainless steel AISI316L, PEEK |
| Temperature range | -80 °C ÷ +140 °C |
| Standard calibration points (temperat | ure) -40/-20/0/25/50/75/100/125/140°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 |