

L-Disk



L-Disk is a contact temperature data logger from -80°C to 80°C (calibration from -60°C to 80°C), with internal sensor, managed with Windows software and USB interface (DiskInterface HS, Multibay). The sensing point is located at the centre of the upper flat surface, for contact monitoring. There are two versions: with standard calibration from -60°C to 80°C, studied for lyophilization processes, and the [HT](#) version with standard calibration from -60°C to 140°C. **Battery is user replaceable** and the data logger is **provided with an Accredia (NIST equivalent) traceable certificate** on 6 points. Extra calibration points can be requested from -80°C.

2 [tacky thermal pads](#) (35 X 35 mm) to improve heat conductivity on rough surfaces are included.

There are also other models of very low temperature data loggers.



Applications



Validation



Pharmaceutical



Healthcare



Laboratories



Medical



Food & Beverages

Main features

- Contact sensor with fast response time
- Completely food grade and waterproof
- Suitable for lyophilization processes validation
- **All software calculate lethality value (F0, PU, A0 ecc.)**
- Low battery consumption for an extended battery life
- User replaceable battery (**software shows battery status**)
- Accredia (NIST equivalent) traceable calibration certificate included **from -60°C**
- Available **extended calibration from -80°C** (order extra calibration points)

Plus

- Extremely high accuracy and precision: with an accuracy of $\pm 0,1^{\circ}\text{C}$ these devices can be employed for applications involving pharmaceuticals, validation, laboratory and medical field
- High accuracy even outside the calibration range
- High accuracy even from -80°C
- Fast response time also thanks to tacky thermal pads
- Printed reports compliant with health regulations and ISO (data are not editable in the software)

The system

The system is made up by:

- L-Disk 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
- Tacky thermal pad
- S-Disk J, L-Disk battery kit

Technical specifications

Dimensions	29,5 h X 35 Ø (mm)
Weight	25 gr
Materials	Stainless steel AISI316L, PEEK
Temperature range	-80 °C ÷ +80 °C
Standard calibration points (temperature)	-60/-30/0/40/80°C
Extra calibration points (temperature)	Within the range -80 °C ÷ +80 °C
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C within the range -60 °C ÷ +80 °C, ± 0,2 °C within the range -80 °C ÷ -60 °C (valid in the calibration range)
Memory (n. of acquisitions)	54.528
Acquisition step	From 1 every second up, with 1 second steps
Protection degree	IP68
Battery life	+8.000.000 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