

S-Disk J Ultra Freeze

S-Disk J Ultra Freeze is a temperature data logger from -80°C to 140°C (calibration from -40°C to 140°C) with 20 or 100 mm or on demand length external probe (probes cannot be switched) on a 13 mm cone 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 certificate** on 6 points.

The ultra low temperatures datalogger looks like the S-Disk J 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 ÷ -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**.

The other versions of the data logger are:

- S-Disk J: with rigid probe of different lengths
- S-Disk J Flexible: with flexible cable probe and rigid probe at the end
- S-Disk J Bendable: with semi-rigid metal bendable probe and rigid probe at the end

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 a S-MicroW series logger with -80°C special battery.

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
- 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 $\pm 0,1$ °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
- Printed reports compliant with health regulations and ISO (data are not editable in the software)



Applications



Validation



Pharmaceutical



Healthcare



Medical



Laboratories

The system

The system is made up by:

- S-Disk J 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
- DiskInterface HS
- Universal multibay
- Locking bolt
- Fastening system
- Teflon protective tube
- S-Disk J, L-Disk battery kit

Technical specifications

Dimensions	29,5 h X 35 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	60 gr
Materials	Stainless steel AISI316L, PEEK
Temperature range	-80 °C ÷ +140 °C
Standard calibration points (temperature)	-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)	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



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