# TempStick Probe -80



TempStick Probe -80 temperature data logger is a miniaturized temperature recorder with cable and rigid metal probe of verious lengths, calibrated from -80°C up to 20°C; it has a wide range of monitoring applications especially in the food and pharmaceutical industry, for continuous monitoring in ultra freezers. Its reduced size and no need of external power supply make the TempStick system extremely versatile. The data logger is supplied with calibration certificate with Accredia (Italian reference center, NIST equivalent) traceability and the battery is user replaceable.



The rigid metal probe is made with stainless steel AISI 316L, food grade, and is available in different types:

- 3 cm length, 4 mm diameter, rounded tip for immersion (ordering code 03)
- 8 cm length, 4 mm diameter, rounded tip for immersion (ordering code 04)
- 3 cm length, 4 mm diameter, pointed tip for penetration (ordering code 05)
- 8 cm length, 4 mm diameter, pointed tip for penetration (ordering code 06)

Cable is 2 mm diameter and has a standard length of 50 cm but it can be ordered longer.

## Applications

Laboratories

Pharmaceutical

Healthcare

Medical

Food & Beverages

Industrial

## Main features

- Mission programming and reading using a PC through the TecnoStick Interface or SRI and FLI portable interfaces
- Reduced size for easy use for every need
- Quick response time
- **Stand-by function**: start the logger and then, using the metallic clip, set it to a stand by status. In this way you can send many pre-programmed loggers to the sender of the products without providing him with the software and the interface. Before sending the goods he will just have to remove the clip to start the acquisitions

## Plus

- High accuracy and precision
- Product's core temperature controlled directly
- Easy to use with SRI and FLI portable interfaces
- Compliant with HACCP and EN12830 regulations
- **MKT formula implemented**, for quick data analysis, also on SRI and FLI
- Provided with calibration certificate Accredia (NIST equivalent) traceable (on demand)
- Long life battery
- User replaceable battery

## The system

The TempStick system is made up by:

- TempStick data logger
- TS Manager 3 software
- TecnoStick Interface

## Accessories

- TS Manager 3
- TecnoStick Interface
- TempStick metal clip

## Technical specifications

| | |
|---|---|
| Dimensions | 54 X 32 X 11 (mm) |
| Probe dimensions | Cable 500 l X 2 Ø (mm) or longer - Probe 30 or 80 l X 4 Ø (mm) pointed or rounded |
| Weight | 14 g |
| Temperature range | -30 °C ÷ +60 °C |
| Sensor temperature range | -80 °C ÷ +20 °C |
| Standard calibration points (temperature) | -80/-40/0/20°C |
| Extra calibration points (temperature) | Within standard calibration range |
| Temperature resolution | 0,03 °C |
| Temperature accuracy | ± 0,25 °C (within the calibration range) / ± 0,5 °C (within the range -80 °C ÷ -40 °C) |
| Memory (n. of acquisitions) | 2.730 |
| Acquisition step | From 1 every minute to 1 every 255 minutes |
| Battery type | 3.0V CR2032 lithium, user replaceable (2017 IATA DGR: PI970 Section II, < 4 cells) |
| Battery life | Up to 3 millions acquisitions @25°C +/- 10°C |
| Protection degree | IP63 |
| Software&Mobile App | TS Manager 3 |
| Accessories | TecnoStick Interface |

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