S-Radio

S-Radio is a wireless temperature data logger from -40°C to 140°C (calibration from 25°C to 140°C) with 20 or 50 or 100 or 150 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. **Battery is user replaceable** and the data logger is **provided with an Accredia** (NIST equivalent) **traceable certificate** on 4 points.

Thanks to S-Radio **process data can be viewed in real time** on PC screen along with progressive lethality (pasteurisation units, F0, A0 etc.) values. Alarms can be set on temperature and lethality value itself. With P-Radio you can act in real time on the process, knowing the thermal curve at the core of the product.

The other versions of the data logger are:
- S-Radio 100 / 5 mm: with 100 mm length, 5 mm diameter rigid probe
- S-Radio Flexible: with flexible cable probe and rigid probe at the end

The version for up to 100°C is available too, along with flexible, bendable versions.

It is part of a series of data loggers divided in P-Radio (up to 100°C) and S-Radio (up to 140°C). They require an interface for PC connection: DiskInterface HS, Multibay. For real time data the USB Radio Receiver is needed as well.

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

Applications

Food & Beverages

Sterilisation

Pasteurisation

Pharmaceutical

Medical

Healthcare

Laboratories

Validation

Main features

- With different lengths rigid probe for penetration
- Completely food grade and waterproof
- **All software calculate lethality value (F0, PU, A0 ecc.)**
- **Replaceable battery** (**software shows battery status**)
- **Real time data transmission**, no installation requested
- Accredia (NIST equivalent) traceable calibration certificate included
- Available **extended calibration from -40°C** (order extra calibration points)

Plus

- High accuracy and precision, food grade, probes of different size
- Very easy to deploy in any type of package with the fastening system
- 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)
- Knowing the thermal curve in real time will allow to act immediately saving time, money and increasing the quality of the product

The system

The system is made up by:

- S-Radio temperature data logger
- DiskInterface HS or Universal Multibay
- USB Radio Receiver or Ethernet Receiver (for Process Monitor Pro software only)
- SPD software, TS Manager software (compatible with the FDA 21 CFR Part 11 regulation) or Process Monitor software

Accessories

- SPD
- TS Manager
- Process Monitor Lite
- Process Monitor Pro
- DiskInterface HS
- Universal multibay
- USB Radio Receiver
- Ethernet radio receiver
- 4-20 mA receiver
- Locking bolt
- Fastening system
- Teflon protective tube
- P-Radio, S-Radio battery kit

Technical specifications

Dimensions	76 h X 30 Ø (mm)
Probe dimensions	Probe base dimensions 3 h X 14 Ø (mm) - Probe 20/50/100/150/on demand l X 3 Ø (mm) (l on demand: min. 12 mm / max. 175 mm. For longer probes ask for quotation)
Weight	76 g
Materials	Stainless steel AISI316L, PEEK
Temperature range	-40°C ÷ +140°C
Standard calibration points (temperature)	25/50/75/100/121/140°C
Extra calibration points (temperature)	Within the range -40 °C ÷ +140 °C
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (within the calibration range)
Memory (n. of acquisitions)	121.171
Acquisition step	From 1 every second up, with 1 second steps
Protection degree	IP68
Battery life	+3.800.000 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, Process Monitor
Accessories	DiskInterface HS, Multibay universale, USB Radio Receiver, Ethernet receiver, 4-20 mA receiver