

# P-Radio

P-Radio is a wireless temperature data logger from -40°C to 100°C (calibration from 25°C to 100°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 P-Radio **process data can be viewed in real time** on PC screen along with progressive lethality (pasteurisation units) 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:

- P-Radio 100 / 5 mm: with 100 mm length, 5 mm diameter rigid probe
  - P-Radio Flexible: with flexible cable probe and rigid probe at the end
- The version for up to 140°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



Pasteurisation



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:

- P-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 13 h X 15 Ø (mm) - Probe 20/50/100/150 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	76 gr
Materials	Stainless steel AISI316L, PEEK
Temperature range	-40 °C ÷ +100 °C
Standard calibration points (temperature)	25/50/75/100°C
Extra calibration points (temperature)	Within the range -40 °C ÷ +100 °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



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