

# Temperature Smart Sensor



Smart temperature sensor for DeepWave system radio data logger with LoRa Wan.

The Smart Sensor contains its calibration and identification data in the electronics inside: in this way the **recalibration process is quick and easy**: just replace the sensor without having to request the intervention of a professional technician on site for calibration or having to remove the sensors with the data loggers from their position to send them to a calibration laboratory.

**There are no additional costs!**

All Smart Sensors are supplied with an **Accredia traceable calibration certificate included.**



## Main features

- Standard cable length (50 cm) available but different rigid stainless steel probes: 30 or 80 mm, rounded or pointed
- Using the extensions it is possible to extend the cable length
- Possibility to switch sensors and DeepWave nodes with no calibration loss

## Plus

- Easy recalibration: no need to uninstall the complete system for recalibration, but simply disconnect the sensor with expired calibration and connect the new one previously sent
- Time savings: you will never miss a single minute of monitoring, as you will receive the new calibrated sensor BEFORE disconnecting the one with expired calibration to be sent back to Tecnosoft)
- Easy to use: no configuration to perform when changing sensors. Connected sensors are automatically recognized by the system

## The system

Smart Sensors work with the DeepWave system and Lo.Ra. radio nodes:

- DeepWave LoRa radio modules
- TSLog 21 software, 21 CFR compliant
- Receiver Helios

## Accessories

- Gea
- Mercury
- Jupiter
- Pluto
- Saturn
- Helios - LoRa Gateway
- TSLog 21
- Smart Sensor / ZED IT adapter cable extensions
- Flat DeepWave Node / Smart Sensor cable extension
- LoRa Node / Smart Sensor cable extensions

## Applications



Pharmaceutical



Validation



Cosmetics



Cold Chain



Environment



Medical



Warehouses



Healthcare



Food & Beverages



Laboratories



Logistic&Transport



Industrial



## Technical specifications

Smart Sensor Dimensions	Cable 500 l X 3,6 Ø (mm) - Probe 30 or 80 l X 4 Ø (mm) pointed or rounded
Connection cable	100 l X 3 Ø (mm)
Sensor temperature range	-40 °C ÷ +80 °C
Standard calibration points (temperature)	-30/0/20/60°C
Extra calibration points (temperature)	Within the range -40 °C ÷ +80 °C
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (within the calibration range)

