

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

Applications



Pharmaceutical



Validation



Cosmetics



Cold Chain



Environment



Medical



Warehouses



Healthcare



Food & Beverages



Laboratories



Logistic&Transport



Industrial

Accessories

- Deimos
- Fobos
- Gea
- Moon
- Mercury
- Jupiter
- Pluto
- Neptune
- 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

Technical specifications

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|---|---|
| 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) |

