

Temperature Smart Sensor with internal sensor



Smart Sensor with internal sensor, with connection cable to the DeepWave LoRa of 50 cm length.

The idea of a Smart Sensor is based on the fact that by containing the calibration data inside, the **recalibration** takes place **quickly and easily** by replacing the sensor only without having to request the intervention of a technician for calibration or having to disassemble the sensors from the plant to send them to a special laboratory.

Without additional costs!

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



Main features

- Digital internal calibrated sensor
- Using the extensions it is possible to extend the cable length
- Possibility to switch sensors and radio devices with no calibration loss

Plus

- Easy recalibration: no need to uninstall the whole device for recalibration (sensor and unit), just disconnect the uncalibrated sensor and connect the calibrated one
- Time saving: you never lose a single minute of monitoring, since **you receive the new calibrated sensor BEFORE unplugging the old one** (that will be sent back to us)
- Easy to use: no configuration needed. The system recognizes automatically the sensors connected

The system

Smart Sensors work with the DeepWave system and LoRa radio nodes.

- DeepWave LoRa nodes
- TSLog 21 software, 21 CFR Part 11 and Annex 11 compliant
- Receiver Helios

Accessories

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



Cosmetics



Medical



Cold Chain



Environment



Warehouses



Healthcare



Food & Beverages



Laboratories



Validation



Industrial



Logistic&Transport

Technical specifications

| | |
|---|---|
| Dimensions | 43 X 22 X 11 (mm) |
| Connection cable | 500 l X 3 Ø (mm) |
| Temperature range | -20 °C ÷ +50 °C (non condensing) |
| Standard calibration points (temperature) | -10/0/20/40°C |
| Extra calibration points (temperature) | Within the range -20 °C ÷ +50 °C |
| Temperature resolution | 0,01 °C |
| Temperature accuracy | ± 0,2 °C (within the calibration range) |

