

# Temperature Smart Sensor with internal sensor



Smart Sensor with internal sensor, with connection cable to the DeepWave Lo.Ra. 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 Lo.Ra 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)
Probe dimensions	500 l X 3 Ø (mm)
Temperature range	-20 °C ÷ +50 °C
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)

