Temperature and humidity Smart Sensor



Simple and certified temperature and humidity monitoring thanks to Smart Sensors for the DeepWave radio data logger system with LoRa.

The Smart Sensors have calibration and identification data inside the electronics: so your **recalibration process is quick and easy**: replace the new and calibrated sensor without the intervention of an external technician or without having to remove 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

- Using the extensions it is possible to extended the cable length
- Possibility to switch sensors and LoRa radio loggers 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 loose a single minute of monitoring, since you receive the new calibrated sensor BEFORE unplugging the old one (sent back to Tecnosoft)
- Easy to use: no configuration needed. The system recognizes automatically the newly sensors connected

The system

Smart Sensors work with the DeepWave wireless system and LoRa radio nodes:

- DeepWave LoRa radio modules
- TSLog 21 software, 21 CFR Part 11, GAMP 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

Healthcare

Pharmaceutical

Environment

Cosmetics

Warehouses

Validation

Laboratories

Food & Beverages

Medical

Industrial

Cold Chain

Logistic&Transport

Technical specifications

Dimensions	56,2 X 26,7 X 16 (mm)
Connection cable	100 l X 3 Ø (mm)
Temperature range	-20 °C ÷ +50 °C (non condensing)
Standard calibration points (temperature)	5/30/50°C
Extra calibration points (temperature)	Within the range -20 °C ÷ +50 °C
Temperature resolution	0,03 °C
Temperature accuracy	± 0,25 °C (within the calibration range)
Humidity range	0% ÷ 100% RH (not condensing)
Standard calibration points (humidity)	30/50/70% @ 30°C ± 10°C
Extra calibration points (humidity)	Within the range 10% ÷ 90% RH
Humidity reslution	0,1%
Humidity accuracy	± 3% RH from 10% to 90% / ± 4% from 0% to 100%

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