

INTELLIGENT SENSORS



Immediate recalibration of your monitoring systems of temperature and humidity



Temperature Intelligent Sensor with Radio Node: electronics of the sensor is incorporated in the cable.

Pros

- Easy reclamation: 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.

Applications

- Monitoring of food or pharmaceuticals stores and stockhouses.
- Monitoring of fridges subjected to periodical calibration.
- Monitoring of temperature controlled transports.

There is the possibility to have the Intelligent Sensors for **OEM installation**: every producer of machines where a sensor is needed (fridges, fridge cells, refrigerated trucks, ovens etc.) can implement Intelligent Sensors in it and give their Customers a device that can be easily and quickly recalibrated, with a higher accuracy and a low cost service (just switch the two sensors).

Tecnosoft developed a completely new method of data logging, with a new generation of devices: the **Intelligent Sensors**, much more than simple sensors.

The idea of an intelligent sensor is based on the fact that its parameters (serial number etc.) and the calibration data are stored electronically in a circuit installed on its cable. In this way you can connect to a reading device or directly to your PC, several intelligent sensors of different kind and they will all be recognized for what they are and what they are able to read (temperature or temperature and humidity), along with their calibration data. Then, readings are communicated in different way to the final user: with a direct PC connection, through the Ethernet, wireless via radio.

System

Intelligent Sensors are used connected to Radio Nodes, the wireless module able to send data via radio to any Tecnosoft receiver: USB Radio Receiver for TSR system, Radio Printer for the same system and WTMC for the FridgeLog system. The Radio Nodes are managed by the Radio Starter software, freely downloadable from Tecnosoft website.

All Intelligent Sensors come with a SIT (NIST equivalent) traceable calibration certificate.



Temperature and humidity Intelligent Sensor connected to the Radio Node.



Fields of application



Healthcare



Pharma

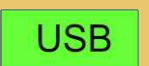


Food



Laboratory

Interface Communication



wireless

Technical Data

Dimensions Radio Node	6,5 X 5 X 4,5 cm
Temperature range Radio Node	-20 °C ÷ +60 °C
Temperature range	-40 °C ÷ +90 °C (other ranges available)
Temperature resolution	0,03 °C
Temperature accuracy	±0,25 °C
Humidity range	0% ÷ 100% RH
Humidity resolution	0,1% RH
Humidity accuracy	±3% RH
Transmission rate	From 1 reading every 3 seconds up
Battery life	More than 500.000 acquisitions/transmissions. Factory replaceable
Communications	USB (Radio Configuration Interface), Wireless (RF 433 MHz)

Systems

TSR	TSR software, Radio Starter software, USB Radio Receiver, Radio Configuration Interface
FridgeLog	FridgeLog software, Radio Starter software, WTMC, Radio Configuration Interface
Radio Printer	Radio Printer, Radio Printer USB, TSR software (Radio Printer USB only), Radio Starter software, Radio Configuration Interface



The **temperature and humidity Intelligent Sensor** can be connected to the Radio Node directly or by mean of a cable.



Tecnosoft srl
 Via Luigi Galvani, 4, 20068, Peschiera Borromeo (MI) - ITALY
 Tel +39 0226922888 - Fax +39 0226922875
 www.tecnosoft.eu - info@tecnosoft.eu
 UNI EN ISO 9001:2008 Certified for Software development

Product Code:
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 ts11ist200xxy
 ts11ist-80xxy / ts11isth
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