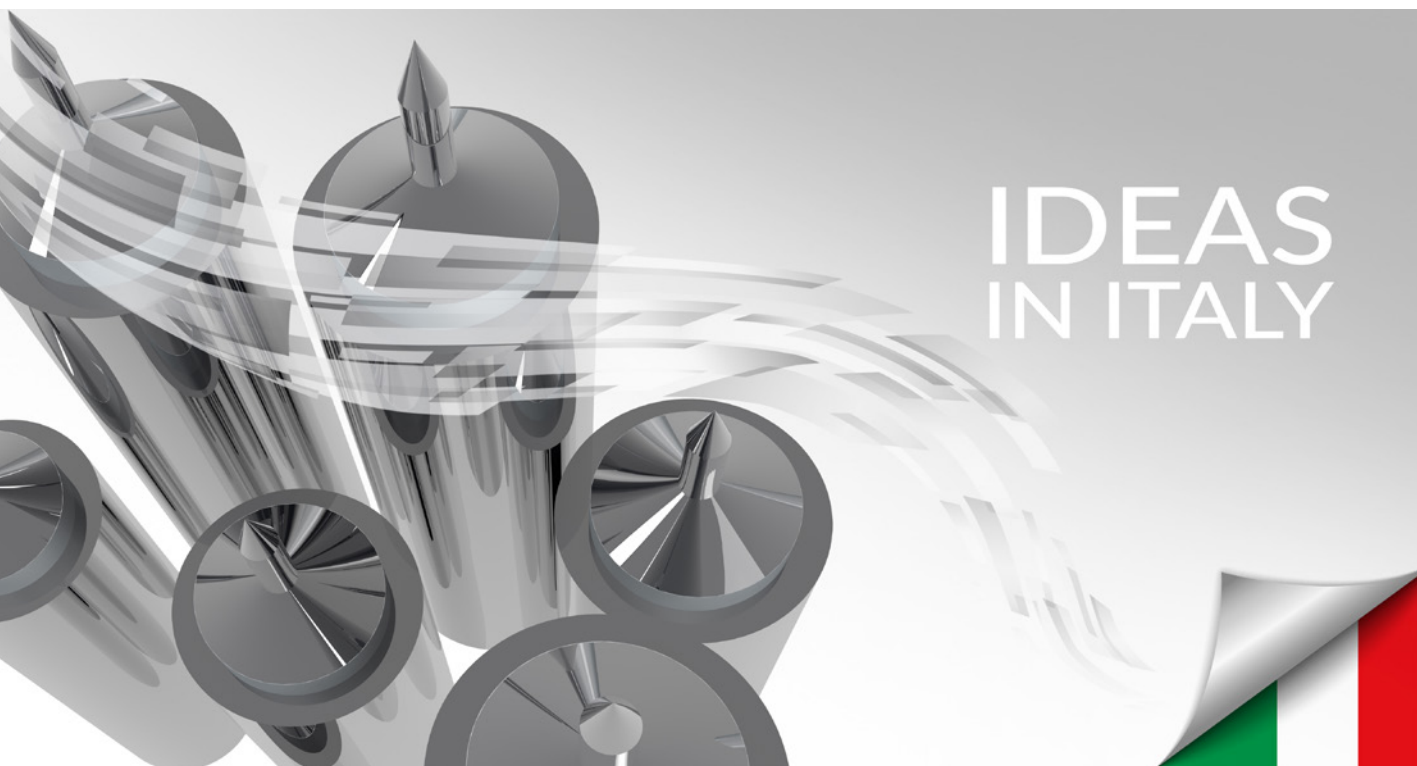




Temperature & Humidity Monitoring Solutions for Cold Chain



Our history



IDEAS
IN ITALY



WE DESIGN AND DEVELOP BRAND NEW SOLUTIONS



Tecnosoft, founded in 1989, is an Italian research and development company of technical-scientific software, data acquisition systems and solutions for different fields. We develop projects on demand and have also our own line of data logging systems for temperature, humidity and pressure monitoring in the pharmaceutical, medical, healthcare and food & beverage industries.

Tecnosoft has a very important question for you: how do you measure the quality of your products? Do you use proper and reliable devices that give you the exact quality value of your product or your performance? Our goal is to provide the suitable loggers and tools needed to monitor temperature and humidity during transport and storage of sensitive or perishable goods like medicine, blood plasma, food, serums etc.

An unbroken cold chain helps ensure the freshness and quality of the goods. Cold chain monitoring is an important practice in the pharmaceutical and food industries, where the products are particularly sensitive to temperature fluctuations. Our cold chain data loggers can assist you in validating that products are stored and transported within regulated temperatures.

Tecnosoft is not a mere hardware manufacturer but a complete solution provider which includes dedicated software for specific applications in different fields, that will answer to regulations' requirements and being user-friendly to the final operator. Thanks to our flexibility and constant update we can understand rapidly customers needs and translate them into new systems or continuous updates of existing solutions, along with the possibility of customizations for the different users. Finding the proper system for your own way of work is the aim of Tecnosoft.

Our sales and technical team can advise the customer in selecting the right product for each application, as well as provide after-sales support.

Since 2002 Tecnosoft has implemented a certified quality system based on the ISO 9001:2000 and then on the 9001:2008 regulation and it is currently updating it to the new ISO 9001:2015.



Application Areas - Where Tecnosoft loggers are used



Pharmaceutical Industry / Medical sector

Temperature & Humidity monitoring, as well as the constant documentation during the production, transport and storage of temperature-sensitive products such as medicines, blood plasma, serums, drugs are not only subject to strict requirements but also a good working practice.

Food Industry / HACCP

Only consistently maintenance of the cold chain can guarantee that food products retain their high quality and optimum shelf life. In order to guarantee this, prescribed threshold values must be maintained during the manufacturing, storage and especially transport stages and parameters must be constantly monitored and documented. The Hazard Analysis and Critical Control Points concept (HACCP) plays an important role in the food sector. Preventative measures ensure that food products' perfect quality is guaranteed.



Research & Development, Laboratories & Hospitals

Monitoring of temperature- and humidity-sensitive products are mandatory for a high standard of quality in research and development areas as well as in laboratories and hospitals.

Buildings & Museums

In order to protect sensitive and valuable objects like art pieces in museums or archives the ambient temperature and humidity too must be monitored constantly.

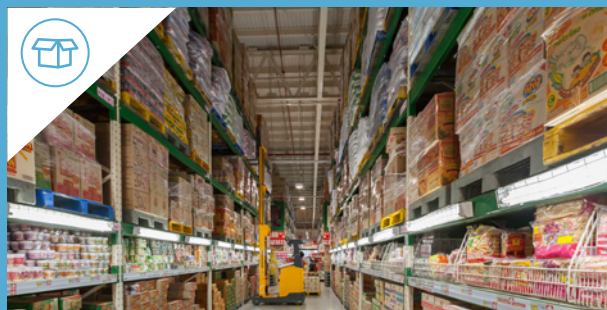


Production, storage & transport in Industry

Monitoring of production areas, storerooms, refrigerators and climate cabinets and at the same time uninterrupted recording of measurement parameters during the transport of industrial goods, like temperature-sensitive chemicals, electronic components etc, is a guaranty of quality of these products.

Logistic & Warehouse

Transport and warehousing according to the requested temperature and humidity regulations, play an important role to ensure the desired quality of products. After manufacturing and before the dispatch of products they need to be stored in a controlled environment. Logistics companies are obliged to transport these temperature-sensitive goods according to the regulations.



TempNFC - Contact less Temperature Data Logger for Shipping & Cold Chain

TempNFC is a contactless temperature data logger with NFC technology managed through Android devices with dedicated Apps from Google Play. It allows to manage temperature monitoring using a Smartphone or a Tablet and to share INSTANTLY with anyone the recording readings. Developed especially but not only for transports and cold chain monitoring the logger is ideal also

for monitoring of ambients, fridges and cold rooms. TempNFC is available in several versions: with or without external probe, in blister or rigid case, with an anti-tamper function used in combination with the wall mount and it allows knowing if and when a logger has been removed from its support.

NFC TempNFC



Single-Use / Multi-Use

NFC TempNFC RC



With Rigid Case

NFC TempNFC RCE



With External Probe

NFC TempNFC RCA



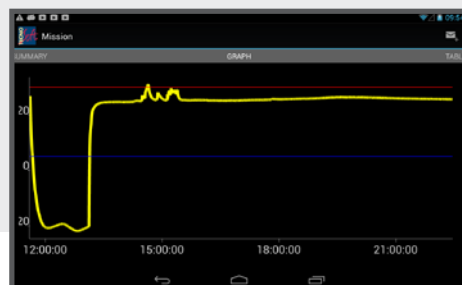
With Anti-Tamper Function

Range: $-30^{\circ}\text{C} \div +50^{\circ}\text{C}$ / Accuracy: $\pm 0.5^{\circ}\text{C}$ without certificate / $\pm 0.2^{\circ}\text{C}$ with Accredia traceable certificate / Resolution: 0.01°C / Memory: 3.928 / Battery: up to 10 years or 3 millions of acquisitions

Probe Range: $-40^{\circ}\text{C} \div +70^{\circ}\text{C}$ / Probe Dimensions: cable $700 \text{ L} \times 2 \text{ } \varnothing$ (mm) - Probe $20 \text{ L} \times 3 \text{ } \varnothing$ (mm) in rubber

TempNFC data logger does not need any additional accessory. Just download the Android App and you are ready to start using it.

TempNFC Android Apps downloadable on Google Play



Main features

- Operating system Requirements: Android
- Data management: data stored in internal memory, SD Card; share via email
- Data display: view readings in graphical or tabular format
- Customizable parameters: minimum and maximum limits, activation energy for MKT calculation, mission maximum duration, notes and info (sender, operator, recipient), recipient email address for automatic delivery, manual start via button.
- Calculated parameters: MKT
- Bar Code and QR Code scan of the items being monitored in the shipment (possibility to input other data manually)
- Automatically send PDF reports to the email address
- Create mission templates to quickly start the devices without entering settings every time
- Geolocalization of the start and stop positions, saved with the mission data
- Real-time checks against alarm thresholds and transport duration
- Tecnosoft Cloud synchronization: download data to the Cloud, make them available to whom needs manage your data everywhere.

Available Versions



Temp NFC Lite - Free basic version



TempNFC Pro - Advanced version



TempNFC Ent - Cloud version



TempBLE - Bluetooth Temperature Data Logger for Shipping & Cold Chain

TempBLE is a Bluetooth temperature data logger, managed through Android devices with TempBLE Delivery App for transports, from Google Play. The data logger is paired with a smartphone and transmits data via Bluetooth (4.0 or above) at a programmed rate. Data are displayed in real

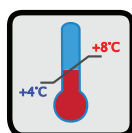
time as they come and alarms are given when the temperature is out of limits (limits can be programmed too). Upon delivery, it is possible to send data via email. Connecting a Bluetooth thermal printer data can be printed to be left with delivery documents.



Range: -30 °C ÷ +60 °C / Accuracy: ± 0.5 °C without certificate / ± 0.2 °C with Accredia traceable certificate / Resolution: 0,01 °C / Memory: 3.840 / Battery: 2X1,5V, up to 2 years life with acquisition rate of 15 minutes / Buttons and functions: immediate reading, Bluetooth pairing / Protection degree: IP67

**TempBLE data logger does not need any additional accessory.
Just download the Android App and you are ready to start using it.**

TempBLE Delivery Android App is downloadable on Google Play Store



Main features

- Operating system Requirements: Android, Bluetooth 4.0 device
- Real-time data transmission on Android devices
- Real-time check against alarm thresholds
- Geolocalization of delivery places: the program will recognize the customer through GPS from the delivery list
- Automatically send XML reports via email
- Acquisition step: from 1 minute up (in steps of 1 minute)



Bluetooth thermal printer

It is available a Bluetooth thermal printer for data logger TempBLE which allows immediate printing of all the recorded acquisitions on a "receipt" to be given upon delivery to the recipient of the goods.

Main features

- Bluetooth connection with the smartphone
- Printing method: on thermal paper, 1 roll of thermal paper included
- 12 V, power adapter included

TempStick - Miniaturized Temperature Data Logger

The TempStick is a miniaturized temperature recorder with a wide range of monitoring applications: from temperature controlled transports of food and chemical or clinical reagents to continuous monitoring in fridges and cells according to 12830 and HACCP regulations. The data logger can be supplied with different types of probes and cables and with a calibration certificate traceable to a national reference.

**TempStick**

With internal sensor



Range: $-30\text{ }^{\circ}\text{C} \div +60\text{ }^{\circ}\text{C}$

**TempStick Probe**

With external probe and cable



Probe Range: $-40\text{ }^{\circ}\text{C} \div +80\text{ }^{\circ}\text{C}$

**TempStick Probe -80**

For temperatures from -80°C



Probe Range: $-80\text{ }^{\circ}\text{C} \div +20\text{ }^{\circ}\text{C}$

**TempStick Probe 200**

For temperatures up to 200°C



Probe Range: $0\text{ }^{\circ}\text{C} \div +200\text{ }^{\circ}\text{C}$

Dimensions: 50 X 24 X 10 (mm) / Accuracy: $\pm 1\text{ }^{\circ}\text{C}$ without certificate / $\pm 0,25\text{ }^{\circ}\text{C}$ with Accredia traceable certificate / Resolution: 0,03 $^{\circ}\text{C}$ / Memory: 2.730 / Battery: up to 10 years or 3 millions of acquisitions

HumiStick - Temperature & Humidity Data Logger

The HumiStick is a miniaturized temperature and humidity data logger with a wide range of monitoring applications: from temperature



and humidity controlled transports of food and chemical or clinical reagents to continuous monitoring in warehouses and stock houses. A special filter protects the sensor from external contaminants and guarantees correct readings.

Dimensions: 50 X 24 X 15 (mm) / Temperature Range: $-30\text{ }^{\circ}\text{C} \div +50\text{ }^{\circ}\text{C}$ / Humidity: 5% \div 95% RH (non condensing) / Temperature Accuracy: $\pm 0,4\text{ }^{\circ}\text{C}$ from $+5\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$ / $\pm 1\text{ }^{\circ}\text{C}$ from $-20\text{ }^{\circ}\text{C}$ to $+65\text{ }^{\circ}\text{C}$ / Humidity: $\pm 3\%$ RH from 20% to 80% / $\pm 4\%$ RH from 5% to 95% / Temperature Resolution: 0,25 $^{\circ}\text{C}$ / Humidity: 0,1% RH / Memory: 1.365 / Battery: up to 10 years or 3 millions of acquisitions

TempStick & HumiStick Accessories



TecnoStick Interface

USB reading base for downloading data and programming TempStick and HumiStick data loggers.

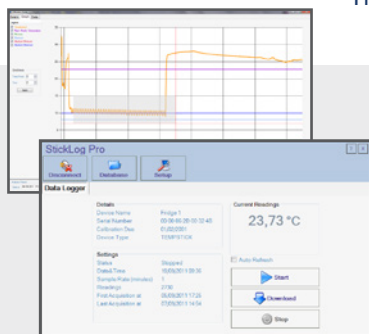


SRI (Starter & Reader) Interface

Portable USB reading base with the display for programming and reading dataloggers. Particularly indicated for monitoring of temperature and humidity controlled transports.

StickLog Pro

TempStick and HumiStick data logger management software. The software can be downloaded freely on Tecnosoft website.



Software features

- Graph with zoom and selection of the curves
- 4 limits: minimum, maximum, absolute minimum, absolute maximum
- Data management: missions sorted by starting date and logger serial number
- Heat index and dew point calculation (with HumiStick only), MKT calculation
- Data exportable to excel
- Printed reports with information on the acquired data, table, graph
- Create programming profile to start quickly the loggers
- Customizable data folders

Operating System Requirements: Windows XP, Vista, 7, 8, 10 (32, 64 bit)

Syrinx System – Wireless Continuous Monitoring of Temperature & Humidity

Syrinx is a real-time continuous monitoring system for temperature and humidity in environments such as warehouses, stock-houses, buildings, laboratories, hospitals, museums, refrigerators and freezers. The system is based upon the ZED radio modules that can accept up to two sensors. **The sensors are intelligent sensors and therefore the recalibration is quick and easy: just replace the expiring sensor with a new calibrated one and the system will recognize it and will be automatically calibrated and updated.** A selection of ZED radio modules with several sensors is available to meet the needs of a variety of applications.



ZED – Radio Module ➔ **EAP – Radio Receiver for ZEDs** ➔ **Syrinx – Data Collector** ➔ **FridgeLog Z – Review the Results**

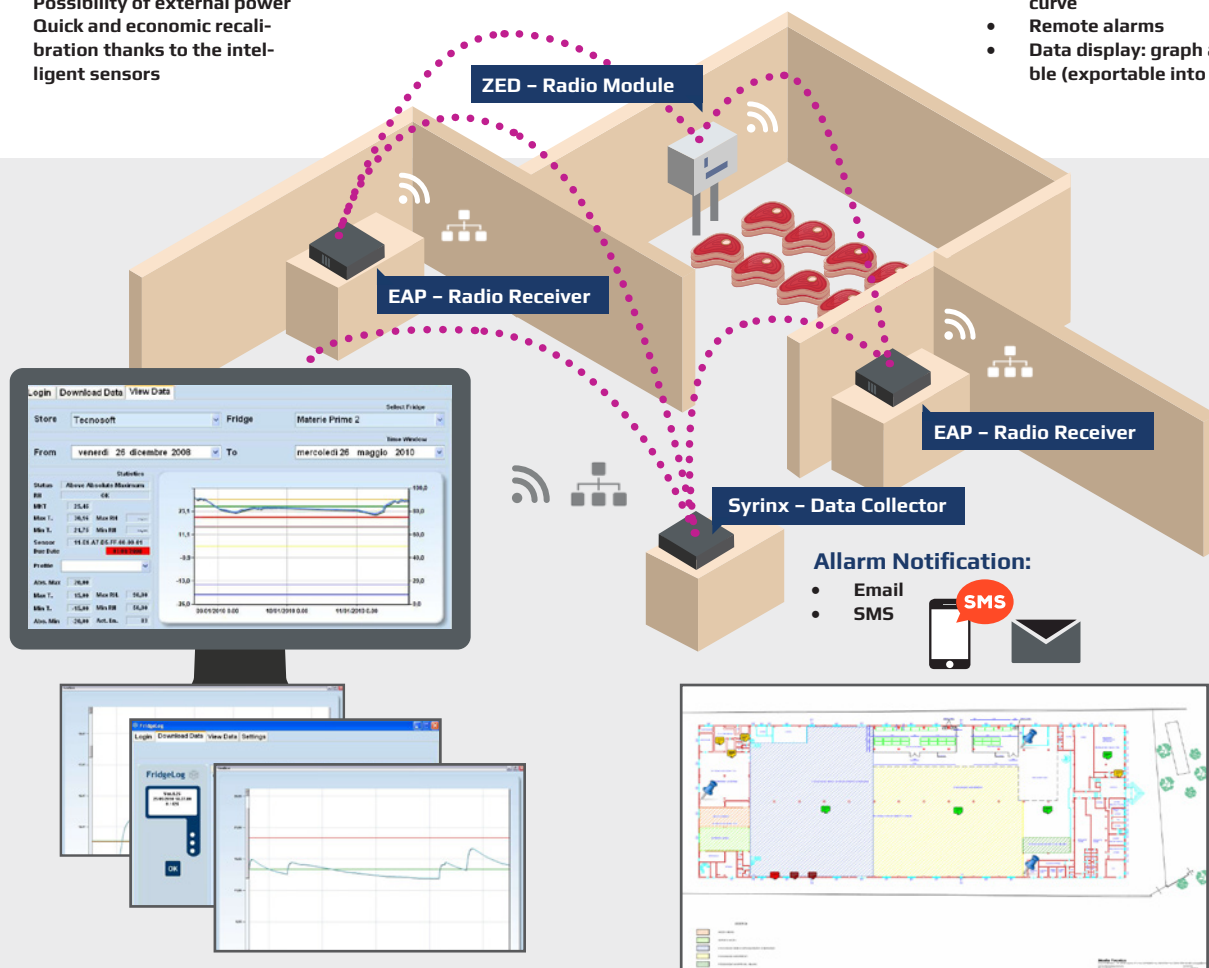


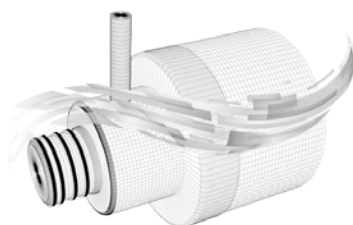
- Bidirectional communication
- Data saved in data logger internal memory
- Accepts up to 2 intelligent sensors
- Possibility of LCD display
- Possibility of external power
- Quick and economic recalibration thanks to the intelligent sensors

- Each EAP creates its own radio network and can manage several ZEDs
- EAP can work as simple receiver, if not connected to the network

- Collects and stores the data from different EAP
- Manages data and saves them in a shared folder or internal memory software
- Manages alarm notification

- Management software for Syrinx system
- Continuous monitoring and easy access to the data
- MKT calculation
- Immediate evaluation of the curve
- Remote alarms
- Data display: graph and table (exportable into Excel)





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