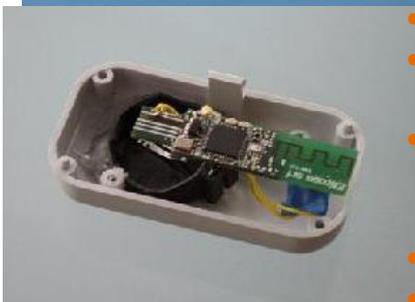
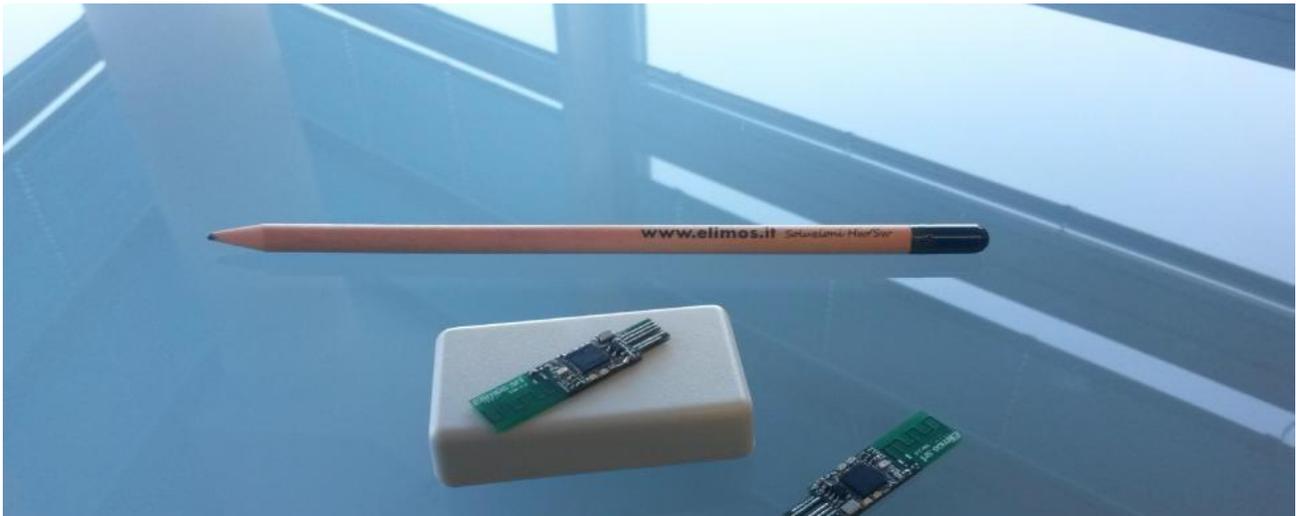




# ELWIS: Wireless Sensor

## Customizable wireless modules for monitoring system and datalogging



- Versatile and modular system of intelligent wireless sensors
- "always-on" or "on-demand" sensors able to communicate with each other and with a Control Center using wireless technology
- Sensors with internal clock and large memory capacity, can take real time measures (voltage, temperature, acceleration, etc.) and can be used in any operating conditions
- Easy to install and inexpensive
- Customizable sensors to cover every requirement of the Customer

### APPLICATIONS

- Ensure the control of goods at various stages: production, transport, distribution warehouses, final delivery point
- Economic and continuous control of the required parameters (temperature, humidity, shock, ...)
- Ensure in a simple, safe and economical way the data collection both locally and remotely at various stages of production and shipment of goods
- Prevent the situations of non-compliance with the specifications of storage and transport of goods (interruption of the cold chain, exceeding the limits of maximum acceleration in the transport of fragile goods, etc.)
- HACCP rules supporting systems



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## Main features

1. The sensors are **uniquely identifiable** and therefore able to allow **tracing** of the unit to which they are applied (packages, containers, pallets, etc.)
2. The sensors are able to acquire **continuously**, with programmable intervals, the quantities to be measured and to record the values reading on the **internal memory of great capacity and reduced absorption**
3. The sensors are able to communicate **continuously with each other** and with a **remote control system**, consisting of a specific **electronic control unit** networked with a SW management system developed by **Elimos**
4. The network connection allows the communication with the sensors, both **locally** and remotely compared to the site, and allows the **acquisition** of values stored in the sensors **in all conditions** and **at all times**, without the need for **any intervention** on site
5. The sensors are **compact** and they can be **positioned in a simple and fast way**. They are available both with **external power supply** and with **internal battery** to avoid the need for cabling
6. The sensors are **removable** and several times **reusable**. It is also possible to achieve “**disposable**” sensors or sensors with **rechargeable power module** to extend the useful life of the same sensor
7. The sensors are **programmable** and equipped with an **internal clock** that allows you to have a precise indication of the parameters measured in time and therefore an accurate identification of “**what**” and “**when**” events have occurred (“**datalogger**” function)
8. The low cost of the sensors easily guarantees a **fast recovery of investments** for the implementation of the system through the possibility of having **advanced services** of **local** or **remote control** otherwise impossible to obtain

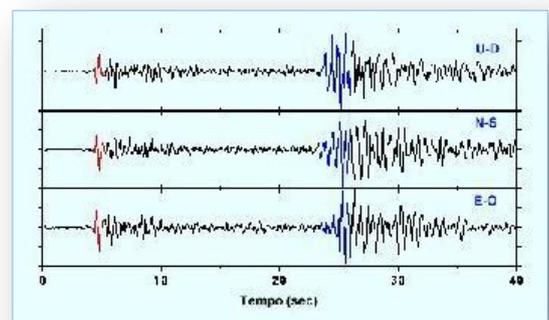
### The sensors are designed to meet the following requirements:

- ✓ Maximum **reduction of sensors' cost** to facilitate the adoption of the system on a large scale
- ✓ **Flexibility** and **ease of use** of the system in the various operating conditions
- ✓ Need to use **high reliability** sensors to reduce maintenance costs
- ✓ **Modularity** and **flexibility** of the **number** and **type** of usable sensors
- ✓ **Easy and quick deployment**
- ✓ “**low power**” sensors to extend the duration and reduce the need for replacement
- ✓ **Intelligent sensors** to ensure maximum performance of the system
- ✓ Ensure the possibility of **remote control** of the **sensors remotely**
- ✓ Creation of a **flexible, expandable** and **easy to use** Control infrastructure



### Examples of available sensors

- **Temperature sensor** for continuous measurement of temperature with the possibility of generation of alarms for exceeding the threshold of minimum, maximum or average
- **Seismic sensor** for the measurement of accelerations and the verification of compliance with the specifications in the **transport of fragile goods** with possibility of measurement in continuous or exceeding the limits of maximum acceleration that you set
- **Custom sensors** according to the Customer's specification for the realization of **special projects on request**



### Technical features of the sensors

- Frequency band: 2,4 GHz standard IEEE 802.15.4
- Data storage up to 8MB, 256KB of program memory. Reprogrammable on the air (OTA)
- Compatible with the ETSI EN 300 328 and EN 300 and EN 440 regulations (Europe)
- TX power programmable up to 4,5dBm and 10-15 m typical range in standard version, 22dBm and 70-100m range in high-power version

For further information about the products and the applications please visit [www.elimos.it](http://www.elimos.it)

