



COMM. CODE	ORDER CODE
WSLR00THCO2	IWQ02
WSLR00THCO2-D	IWQD2



## CO2, Temperature, Humidity and Pressure probe

- BMS functions
- Suitable for professional use
- Standard LoRa® protocol

The wireless probes together with the IE-LoRa-IGW02 Receivers/ Gateways enable the acquisition and centralization of temperature and humidity information of the environments in which they are installed. The devices use the transmission technology provided by the LoRa® standard, which ensures wide coverage without the need for signal repeaters. The probes are powered by two 3.6V lithium batteries (Li-SOCI2) (AA, 2200/2700 mAh), which are user-replaceable and typically provide up to 10 years of battery life.

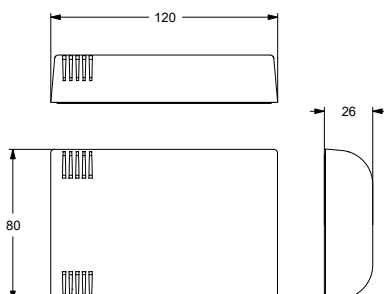
APPLICATIONS
Wireless Monitoring
Smart Building
Smart City
Accounting
Temperature regulation

CERTIFICATIONS
EN60730-1:2011. Automatic electrical controls for household and similar use.
EN60730-2:2011. Particular requirements for energy controllers.
EN60730-3:2011. Home and Building Electronic System HBES.
EN61010-1:2010. Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements.
EN61326-1:2012. Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements. For article 3.2 : Effective use of spectrum allocated. For article 3.1b : Electromagnetic Compatibility.
EN 300 220 - 1 V3.1.1
EN 300 220 - 2 V3.1.1
EN 301 489 - 1 V2.2.0 (2017-03)
EN 50581:2012 RoHS

ACCESSORIES
IGW02, IWMON, LoRa seeder

## TECHNICAL CHARACTERISTICS

<b>AVAILABLE MODELS</b>	WSLR00THCO2: Room temperature and relative humidity radio probe Accredia certifiable. WSLR00THCO2-D: Radio probe for measuring ambient temperature and humidity Accredia Certifiable + built-in DATA LOGGER functions (over 500,000 records - 10 years@10minutes).
<b>USER INTERFACE</b>	Activation Reed, Led indicator
<b>FASTENING</b>	Wall-mounted with bottom plate on 2/4 points
<b>ANTENNA</b>	Helical built-in (2.4 dB gain)
<b>OPERATING TEMPERATURE</b>	-10 ... +65 (°C)
<b>PROTECTION RATING</b>	IP30
<b>STORAGE TEMPERATURE</b>	-20 ... +75 (°C)
<b>CONTAINER MATERIAL</b>	Self-extinguishing ABS UL 94 V0
<b>POWER SUPPLY</b>	2x3.6 VDC Thionyl Chloride Battery (AA, 2200/2700 mAh)
<b>AUTONOMY</b>	Up to 10 years (depending on the power and transmission interval)
<b>RADIO FREQUENCY</b>	868 MHz ISM band
<b>TRANSMISSION POWER</b>	2.5 to 25 mW (regulated automatically)
<b>LINE OF SIGHT COVERAGE</b>	up to 10 Km (line of sight)
<b>T. MEASURING RANGE</b>	-10...+65°C
<b>P. MEASURING RANGE</b>	700-1100 mbar
<b>H. MEASURING RANGE</b>	0-95% (°C)
<b>CO<sub>2</sub> MEASURING RANGE</b>	0-2000 ppm
<b>CO2 MEASUREMENT ACCURACY</b>	± 50ppm + 2% of the measured value
<b>T. MEASUREMENT ACCURACY</b>	± 0.5 ° C in the range 0-60 ° C
<b>H. MEASUREMENT ACCURACY</b>	± 2% in the range 20-80%; within 3% elsewhere
<b>P. MEASUREMENT ACCURACY</b>	±2 mbar
<b>SAMPLING</b>	2 seconds to 10 minutes
<b>TRANSDUCER TYPE</b>	CMOSens®
<b>TRANSMISSION INTERVAL</b>	Typical 10/30 minutes with COV/NOCOV
<b>ANTI-THEFT PROTECTION</b>	Via accelerometer
<b>RADIO DISTURBANCES</b>	EN 61000-6/EN 55024:2010-11
<b>CONSTRUCTION STANDARDS</b>	CEI
<b>CONNECTIVITY</b>	Local Wireless. Available for connection with configuration and data management software.





## LoRa® SEEDER

LoRa® Seeder is the software tool for configuring the LoRa® Wireless Monitoring system by Intellienergy Tech®. It is compatible with Microsoft's Windows 8® and Windows 10® platforms and will soon be available on the LINUX platform. LoRa® Seeder allows you to modify the operating configurations of all probe models (temperature, humidity, brightness, level, VOC, CO2, 20WGI-Master Modbus, etc.) using an accessory connected to the USB port of the PC (Dongle LoRa®).

On the other hand, it connects directly, via a USB port, to the IGW0xx receivers, making the association operations between probes and receivers simple and fast, also allowing to automatically produce the mapping documentation of the Modbus® registers for the System Integrators.

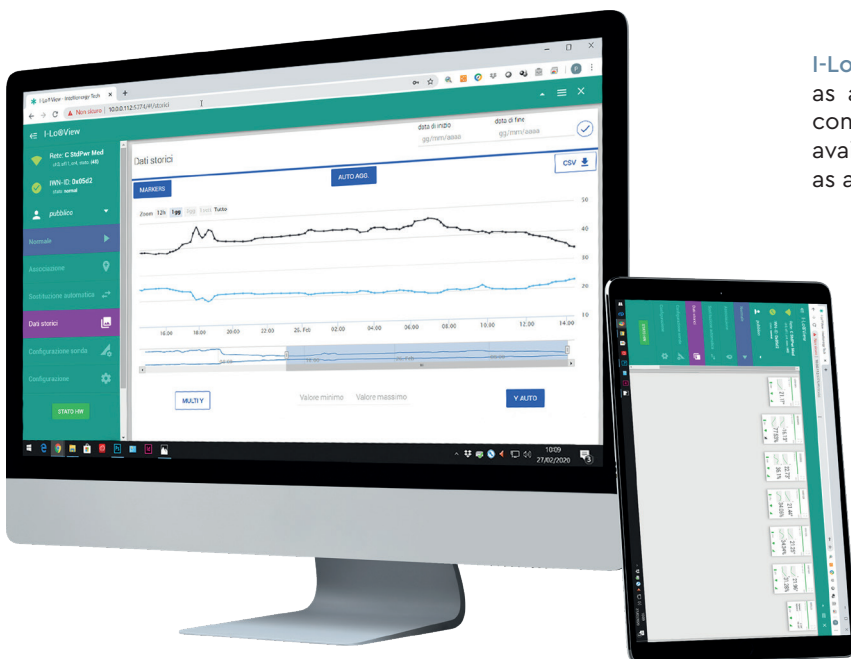
For receivers equipped with the Data Logger function, Seeder allows you to download data from the receiver and store them on its database, to view them graphically and export them in CSV format.



## I-Lo®-View

**I-Lo®-View**, thanks to the use of a LoRa® USB DONGLE (available as an accessory), it transforms any Windows 10® PC into a powerful datalogger server capable of managing all models of Intellienergy wireless probes. On the same PC, or on any other fixed or mobile device (Smartphone, Tablet) connected to the same network, it is possible to consult or manage the entire wireless system, simply by using a Web browser (such as Chrome).

Several users can be connected to **I-Lo®-View** at the same time and access the probe data, both real-time and historical data, being able to compare multiple sensors simultaneously. In addition to the specific sensor data (temperature, humidity, brightness, VOC air quality, CO2 concentration, etc.). **I-Lo®-View** also displays and stores "service" data, such as communication quality and battery levels. If the user has administrator permissions, he can also change the operating parameters of the probes (for example the sampling intervals of the sensors and those for sending measurements).



**I-Lo®-View** it is installed in the Windows environment as a service and is therefore active even if no user is connected to the PC where it is installed. A version is also available for Linux (x86 / x64 / arm) that can be installed as a normal application.