COMM. CODE	ORDER CODE
WSLR00THCO2	IWQ03
WSLR00THCO2-D	IWQD3

LoRa®	2×3.6V AA	IP30	Class VIII 5%	Monitor

CO2, Temperature, Humidity and Pressure probe, equipped with OPTICAL and ACOUSTIC signals.

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

The wireless probe enables the acquisition and centralization of temperature, humidity, atmospheric pressure, and CO2 concentration information within the environments in which they are installed. It uses the transmission technology provided by the LoRa® standard, and the battery life depends on the distance from the receiver and the settings of the sensor acquisition and transmission intervals, but especially on the frequency of activation of the OTIC and ACUSTIC alarms. **The OPTIC and ACUSTIC alarms are activated when programmable thresholds are exceeded, inviting occupants to ventilate the room.**

APPLICATIONS

Wireless Monitoring

Smart Building

Smart City

Accounting

Temperature regulation
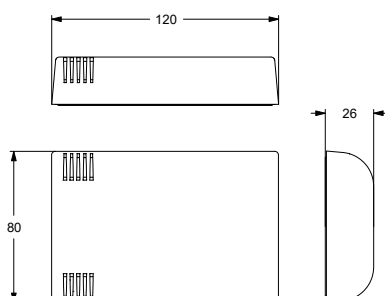
CERTIFICATIONS

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

AVAILABLE MODELS	WSLR00THCO2-OA: Radio probe for measuring temperature, humidity, pressure and CO2 concentration, equipped with SOA. WSLR00THCO2-OA-D: Radio probe for measuring temperature, humidity, pressure and CO2 concentration equipped with SOA, and built-in DATA LOGGER functions (over 200,000 records - 10 years@30 minutes).
USER INTERFACE	Activation Reed, Led indicator
FASTENING	Wall-mounted with bottom plate on 2/4 points
ANTENNA	Helical built-in (2.4 dB gain)
OPERATING TEMPERATURE	-10 ... +65 (°C)
PROTECTION RATING	IP30
STORAGE TEMPERATURE	-20 ... +75 (°C)
CONTAINER MATERIAL	Self-extinguishing ABS UL 94 V0
POWER SUPPLY	2×3.6 VDC Thionyl Chloride Battery (AA, 2200/2700 mAh)
AUTONOMY	Up to 10 years (depending on the power and transmission interval)
RADIO FREQUENCY	868 MHz ISM band
TRANSMISSION POWER	2.5 to 25 mW (regulated automatically)
LINE OF SIGHT COVERAGE	up to 10 Km (line of sight)
T. MEASURING RANGE	-10...+65°C
P. MEASURING RANGE	700-1100 mbar
H. MEASURING RANGE	0-95% (°C)
CO_2. MEASURING RANGE	0-2000 ppm
CO2 MEASUREMENT ACCURACY	± 50ppm + 2% of the measured value
T. MEASUREMENT ACCURACY	± 0.5 ° C in the range 0–60 ° C
H. MEASUREMENT ACCURACY	± 2% in the range 20-80%; within 3% elsewhere
P. MEASUREMENT ACCURACY	±2 mbar
SAMPLING	2 seconds to 10 minutes
TRANSDUCER TYPE	NDIR CO_2+CMOSens®
TRANSMISSION INTERVAL	Typical 10/30 minutes with COV/NOCOV
ANTI-THEFT PROTECTION	Via accelerometer
RADIO DISTURBANCES	EN 61000–6/EN 55024:2010–11
CONSTRUCTION STANDARDS	CEI
CONNECTIVITY	Local Wireless

120

26

80

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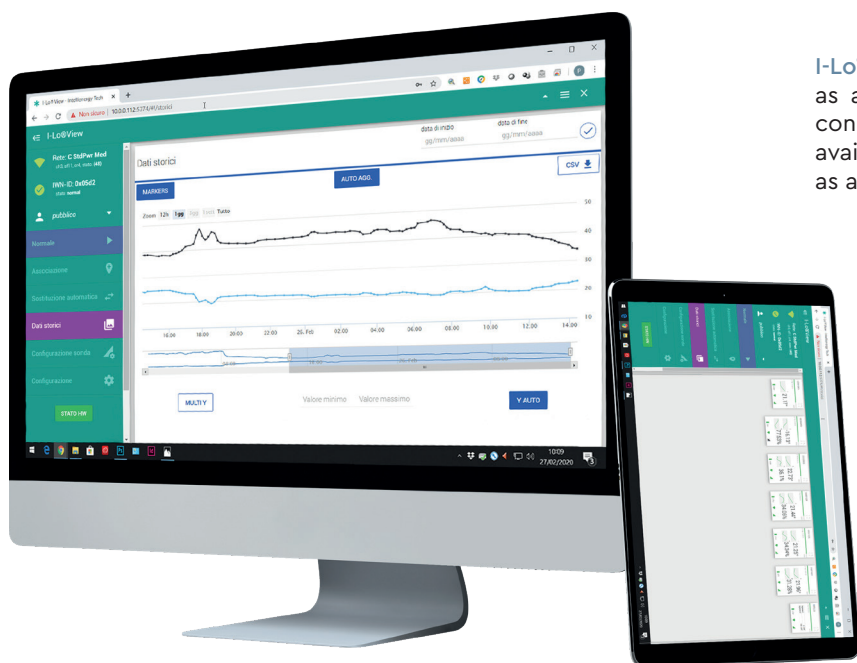
For receivers equipped with the Data Logger function, Seeder allows you to download data from the receiver and store them on its database, to view them graphically and export them in CSV format.

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 (Smatphone, 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.