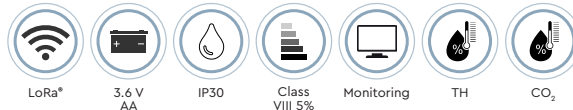




ORDER CODE	COMM. CODE
IWCPO	WLSLR90THC



Wireless probe - Temperature, humidity, CO₂

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

The **IWCPO** wireless panel lets users acquire and centralise information on the temperature, humidity and CO₂ value for the room in which it is placed. The probe uses the transmission technology required by the LoRa® standard, which guarantees broad coverage with no need for signal repeaters.

IWCPO is housed in a self-extinguishing UL 94 V0 ABS container suitable for indoor installation. The panel is powered by a user-replaceable 3.6V (AA, 3500 mAh) lithium-ion (Li-SOCl₂) battery, which typically guarantees a battery life of 3 to 5 years. The device implements consumption reduction strategies such as automatic TX power reduction, modulation of transmission intervals (COV-NOCOV), and receiver deactivation protection. The probe also implements an anti-theft function thanks to the presence of an accelerometer sensor, and can be requested with DATA LOGGER functionality which, however, is guaranteed by the IGW02/IGW07 receivers and the IW-MON Gateway.

Thanks to LoRa Seeder, the **IWCPO** probe can be configured by the user in BEACON mode, to be used together with UNIT-WIR devices.

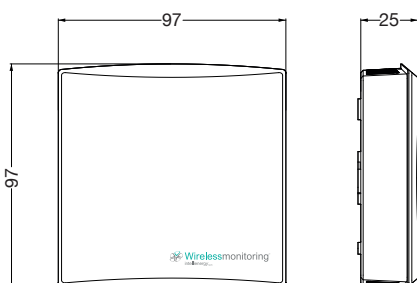
APPLICATIONS
Wireless Monitoring
Smart Building
Smart City
Accounting
Temperature regulation

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, IGW07, IWMON, LoRa seeder, UNIT-WIR (for Beacon mode)

TECHNICAL CHARACTERISTICS

USER INTERFACE	Activation Reed, information LED
FASTENING	Wall-mounted with bottom plate on 3 points
ANTENNA	Helical built-in (2.4 dB gain)
OPERATING TEMPERATURE	0 ... +50 (°C)
PROTECTION RATING	IP30
STORAGE TEMPERATURE	-20 ... +75 (°C)
CONTAINER MATERIAL	Self-extinguishing ABS UL 94 V0
POWER SUPPLY	1x3.6 Vdc Thionyl Chloride Battery (AA, 2200/2700 mAh)
AUTONOMY	Up to 5 years (depending on acquisition intervals, 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 (on sight)
T MEASUREMENT RANGE	-20 ... +70 (°C)
H MEASUREMENT RANGE	0-100%
CO ₂ MEASUREMENT RANGE	0-10,000 ppm
T. MEASUREMENT ACCURACY	± 0.2 (°C) in the range 10-80 (°C)
H. MEASUREMENT ACCURACY	± 1.8% typical ± 3% of reading
CO ₂ MEASUREMENT ACCURACY	± 50ppm typical 3% maximum. ± 75ppm at 600, 1000 and 2500ppm
SAMPLING	30 seconds to 10 minutes for TH, 10 to 30 minutes for CO ₂
TRANSDUCER TYPE	Digital, NDIR
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 available for connection with configuration and data management software





LoRa® SEEDER

LoRa® Seeder is a software tool for configuring the **Intellienergy Tech® LoRa® Wireless Monitoring** system. It is compatible with Microsoft Windows 8® and Windows10® platforms and will soon be available on the LINUX platform. LoRa® Seeder lets users modify the operating configurations of all probe models (**temperature, humidity, brightness, level, VOC, CO2, 20WGI-Master Modbus, etc.**) using an accessory connected to the PC USB port (LoRa® Dongle).

Instead it connects directly via a USB port to **IGW0xx** receivers, making pairing operations between probes and receivers quick and easy and allowing automatic production of Modbus® register mapping documentation for System Integrators.

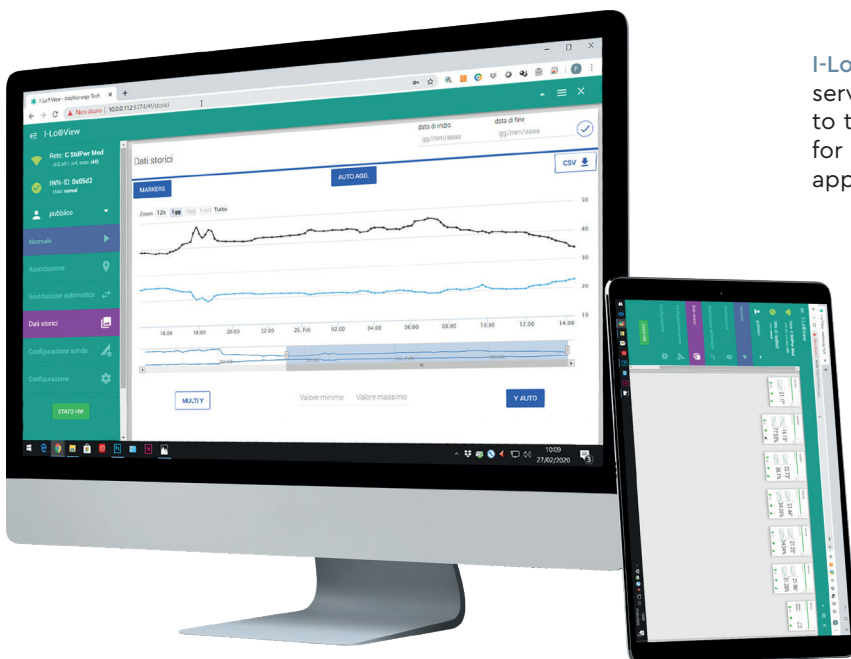
For receivers equipped with Data Logger functionality, Seeder allows data to be downloaded from the receiver and stored in its database, displayed graphically and exported in CSV format.



I-Lo®-View

Through the use of a **LoRa®** USB DONGLE (available as an accessory), **I-Lo®-View** transforms any Windows10® PC into a powerful data logger server, capable of managing all Intellienergy wireless probe models. It is possible to consult or manage the entire wireless system simply by using a Web browser (e.g. Chrome) on the same PC, or on any other fixed or mobile device (Smartphone, Tablet) connected to the same network.

Multiple users can connect simultaneously to **I-Lo®-View** and access both real-time and stored historical probe data, being able to compare multiple sensors at the same time. In addition to 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 authorisations, he/she can also change the operating parameters of the probes (e.g. sensor sampling intervals and measurement sending intervals).



I-Lo®-View 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.