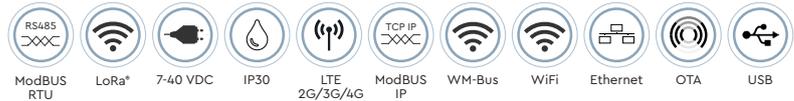




COMM. CODE	ORDER CODE
IGWOX	IW-MON



Wireless Gateway

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

The gateway provides up to two wireless channels (SubGiga 868Mhz, LoRa®, Wireless Meterbus, etc.), LAN and WiFi connectivity. The LAN and WiFi connections allow existing infrastructures to be exploited for internet access, but there's also a version equipped with a MODEM with a μSIM slot for accessing public mobile networks. There's also an on board RS485 port that uses the ModBUS RTU protocol (Master or Slave), thus allowing external devices like Power Meters to be connected directly to the Gateway. The IW-MON also includes a ModBUS TCP/IP server that allows for connection to SCADA systems (PLCs) and human-machine interfaces (HMIs). Interoperability with third-party CMSs is always possible thanks to the use of Web Services and REST APIs, as well as the possibility of sending data using the MQTT protocol. The receiver has an RTC backed by a button battery (replaceable), which allows the time to be kept even in the event of a power failure.

APPLICATIONS
Industry and tertiary sector
Smart Building
Smart City
Accounting
Temperature regulation

CERTIFICATIONS
2014/53/EU SAFETY
EN 62368-1:2014
EN 62311:2008
EMC emissions and immunity
ETSI EN 301489-1 V2.1.1 class B
ETSI EN 301489-17 V3.2.0
ERM (Art. 3.2 RED)
ETSI EN 300328 V2.2.2:2019 DTA

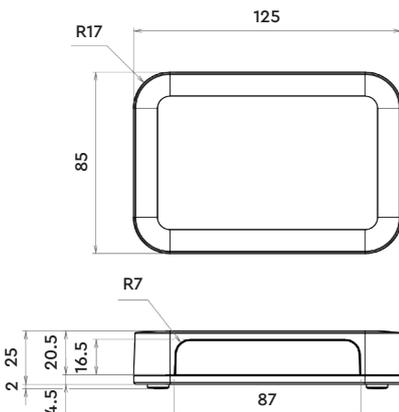
ACCESSORIES
RAL01, RAN05, RAN10, RAN07

BMS FUNCTIONS
These receivers/gateways are suitable for managing BMS structures, are interoperable with third-party equipment and systems and feature scada integration over the ModBUS RTU protocol.

AVAILABLE MODELS
- IW-MON-1CH-NOWAN;
- IW-MON-2CH-NOWAN;
- IW-MON-1CH-WAN;
- IW-MON-2CH-WAN

TECHNICAL CHARACTERISTICS

USER INTERFACE	Activation button; 8 LED indicators. The IW-MON comes with a WEB server (I-LoView®) for device configuration and use.
ANTENNAS	Depending on the model and the number of wireless channels installed. The IW-MON provides one to three SMA female connectors for external antennas equipped with male SMA connectors.
INSTALLATION	Tabletop or DIN BAR (using a special accessory)
OPERATING TEMPERATURE	-40 ... +80 (°C)
STORAGE TEMPERATURE	-40 ... +80 (°C)
CONTAINER PROTECTION RATING	IP30
CONTAINER MATERIAL	Self-extinguishing ABS UL 94 V0
WEIGHT	200g
POWER SUPPLY	7 to 40 VDC
LITHIUM RTC BATTERY LIFE	Typically 5 years (without charging)
PROTECTION RATING	IP30
RADIO DISTURBANCES	EN 61000-6; EN 55024:2010-11
DESIGN STANDARDS	CEI
CHANNEL RF1: LoRa®	ISM 868 Mhz band
TRANSMISSION POWER	25 mW for LoRa
OUTDOOR DISTANCE	5 (Km)
OPTIONAL RF2 CHANNEL	LoRa®, Mesh IE, Wireless MeterBUS
LAN	10 - 100 Mbit
WIFI/BT	IEEE 802.11 b/g/n, BT 2.1 + EDR and BLE 4.2
WAN (optional)	GPRS/UMTS/HSPA/LTE (μSIM slot)
USB	Type A
RS485 PORT	RS485 port for ModBUS RTU (Master/Slave)





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.