



ORDER CODE	COMM. CODE
IGW07	LoRa-GW07



APPLICATIONS

Industry and tertiary sector
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

RAL01, RAN05, RAN07, LoRa seeder

1M DIN Gateway Wireless

- BMS functions
- Suitable for professional use
- ModBUS RTU and IP
- Interoperability with third party systems

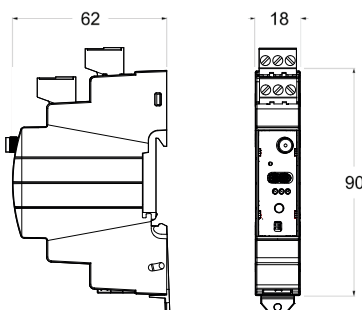
A Receiver/Gateway for the management of up to 64/128 devices (temperature, relative humidity, VOC - Volatile Organic Compounds, CO2 concentration, data acquisition devices - impulses, analogue, power meters, thermal energy meters, UNIT-WIR, HVAC-WIR etc.).

The receiver uses the transmission technology provided by the LoRa® standard, which guarantees extensive coverage, with no need for signal repeaters, making it suitable for use for temperature monitoring required by EPC, Consip, SIE and MIES contracts. The device can be powered from 16–36V DC. It is equipped with both an RS485 port with ModBUS RTU protocol and an Ethernet port with ModBUS IP protocol.

The receiver has an SMA connector for connecting an external 868 MHz ISM band antenna. The type C USB port can be used to configure the receiver, especially during probe pairing and replacement. As a ModBUS Server device, register mapping is automatic and does not require configuration. The register mapping is generated automatically by the configuration tool (LoRa Seeder).

TECHNICAL CHARACTERISTICS

USER INTERFACE	Led and activation button, USB port on the panel, PC application via LoRa® wireless USB dongle.
FASTENING	DIN BAR - encumbrance 1 DIN module
ANTENNA	SMA female connector for external ISM/LoRa® antenna (868 MHz).
WEIGHT	55 g
OPERATING TEMP.	-40 to +85 (°C) Industrial Range
STORAGE TEMP.	-40 to +85 (°C) Industrial Range
CONTAINER MATERIAL	Self-extinguishing ABS UL 94 V0
POWER SUPPLY	Direct Current (18–36V)
LITHIUM RTC BATTERY LIFE	Typically 5 years
TRANSMISSION FREQUENCY	ISM 868 Mhz band
TRANSMISSION POWER	2.5 to 25 mW (25mW nominal)
DISTANCE	Up to 10 Km LoS (line of sight)
CONSTRUCTION STANDARDS	CEI
RADIO DISTURBANCES	EN 61000-6; EN 55024:2010-11
PROTECTION RATING	IP30
CONNECTIVITY	USB, Wireless - Local. RS485 port and Ethernet for connection with ModBUS protocol.
BMS FUNCTION	These receivers/gateways are suitable for managing BMS structures, interoperability with third-party equipment with scada systems and integration via ModBUS RTU and IP protocol.





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.

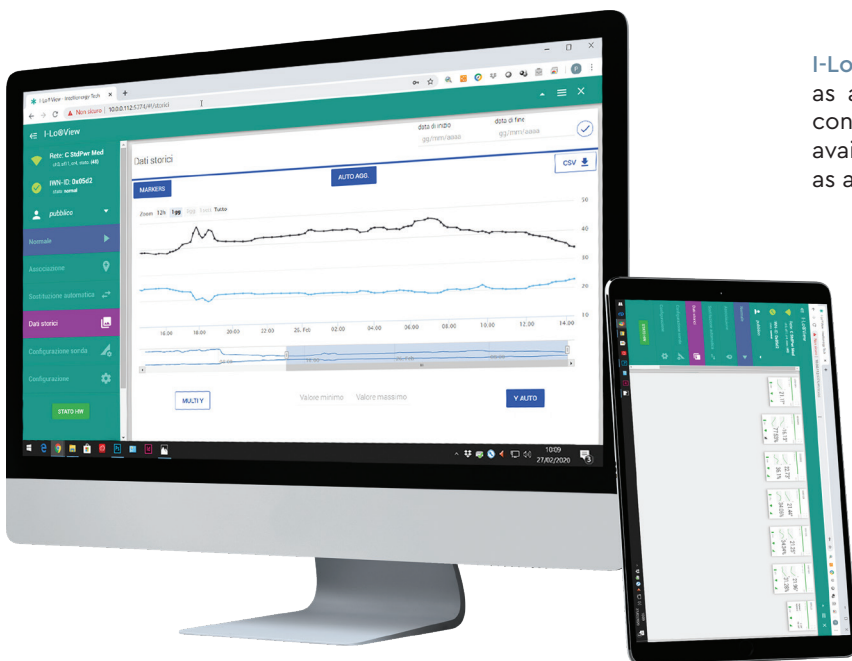
For receivers equipped with the Data Logger function, Seeder allows you to download data from the receiver and store them on its database, to view them graphically and export them in CSV format.



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.