COMM. CODE	ORDER CODE
WSLR00THQ	IWQ01
WSLR00THQ-D	IWQD1

LoRa® | 3.6 V AA | IP30 | Class VIII 5% | Monitor

Wireless probe for measuring Temperature, Humidity and VOC (Volatile Organic Compounds)

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

The wireless probe allows for the acquisition and centralisation of the temperature, humidity, and air quality information in the rooms in which it is installed. It uses the transmission technology required by the LoRa® standard, which guarantees wide coverage with no need for signal repeaters. The probes are housed in a self-extinguishing UL 94 V0 ABS container suitable for indoor installation. The probes are powered by two 3.6V lithium batteries (Li-SOCl2) (AA, 2200/2700 mAh), replaceable by the user, which typically guarantee a battery life of up to 10 years. The battery life depends on the distance from the receiver and the sensor acquisition and transmission interval settings. The probes have an anti-theft function thanks to the presence of an accelerometer. The devices can be requested with DATA LOGGER functionality, which is guaranteed however by the IGW02 receiver and by the IW-MON unit.

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.

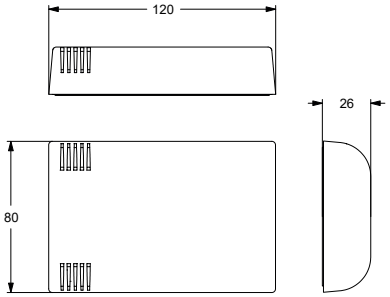
EN60730-3:2011. Home and Building Electronic System HBES.

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	WSLR00THQ: Radio probe for measuring temperature, humidity and VOC WSLR00THQ-D: Radio probe for measuring temperature, humidity and VOC + built-in DATA LOGGER functions (over 500.000 records – 10 years@10minutes).
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 Li-Socl2 (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. MEASUREMENT FIELD	-10...+65 (°C)
H. MEASUREMENT FIELD	0-100%
VOC MEASUREMENT FIELD	0-1000 ppm
T. MEASUREMENT ACCURACY	± 0.25 (° C) in the range 0-60 (° C)
H. MEASUREMENT ACCURACY	± 2% in the range 20-80%; within 3% elsewhere
VOC MEASUREMENT ACCURACY	15% of the typical measured value
SAMPLING	2 seconds to 10 minutes
TRANSDUCER TYPE	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 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 (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.