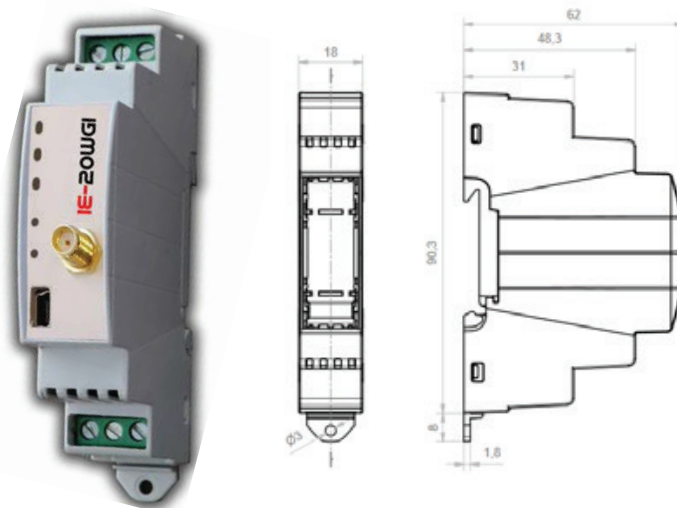# [ε]NSPECTION

Gateway Wireless
IE-20WGI

Wireless Modbus Master

**The IE-20WGI device is a ModBUS RTU master which allows to acquire information from devices equipped with RS485 port and capable to be managed through this protocol.
On its RS485 port they can be connected to up to 16 devices. The acquired information is sent, with the periodicity configuration, towards a receiver / gateway (IGW01 or IGW02).**

The device uses the transmission technology provided by the LoRa® standard, which guarantees wide coverage, without the need for signal repeaters. The device can be supplied with direct current from 18 to 32V.
The module has an SMA connector for connecting an external antenna in ISM 868 band MHz.
Through the USB port it is possible to configure the receiver, especially in the ModBUS configuration, for customizing the mapping of external device registers.
The receiver has a RTC buffered by a button battery (replaceable) which allows to keep the time even in the absence of power supply.

IE-20WGI
Master ModBUS RTU module for wireless connection of Slave ModBUS devices to IGW01 or IGW02 receivers.

The user interface consists exclusively of LED signals and a button, but thanks to a PC application with a LoRa® Wireless USB key, or by connecting directly to the USB port on the panel, it is possible to enter the device configuration (even at a distance in the Wireless case).

Technical Data Sheet

General Information	
User interface	Activation button; Information LEDs
Antenna	SMA female connector for ISM / LoRa external antenna (868 MHz), 250 cm cable, SMA Male connector.
Fastening	DIN BAR

Mechanical	
Operating temperature limit	-40 … +80 (°C)
Storage temperature limit	-40 … +80 (°C)
Module container Class	IP30
Container material	ABS self-extinguishing UL 94 V0
Weight	125 (g)

Electrical	
Power supply	Direct Current (12 ÷ 32Vcc ±5%)
Lithium RTC battery life	Standard 5 years
Transmission frequency	ISM Band 868 Mhz
Transmission power	From 2.5 to 25 mW (25mW nominal)
Outdoor distance	5 (Km)
Degree of protection	IP30
Radio disturbances	EN 61000-6 EN 55024:2010-11
Construction standards	CEI

Connectivity	
USB	Mini USB – For local configuration
Wireless - Locale	Available for the connection with the configuration and data management software
Porta RS485	RS485 port for connection with ModBUS RTU devices in order to acquire the information to be sent to the receiver/gateway.