G2 misuratori

THE VALUE OF METERING

Made in ITALY

SMART READING

Separated radio modules with 868 Mhz frequency, LoRaWAN and W-Mbus OMS transmission protocols, with the possibility of simultaneously transmitting data from 1 or 2 counters, 2 sensors and activating a device such as a solenoid valve or LED.

-Separated radio module Mod- G2-RF-SLW operating at 868 Mhz with certified LoRaWAN protocol for fixed network
-Separated radio module Mod. G2-RF-W+L operating at 868 Mhz with certified LoRaWAN protocol for fixed network and W-Mbus OMS protocol for Walk-by/Drive-by with automatic switch.
-Separated radio module Mod. G2-RF-SNBIOT with MQTT protocol

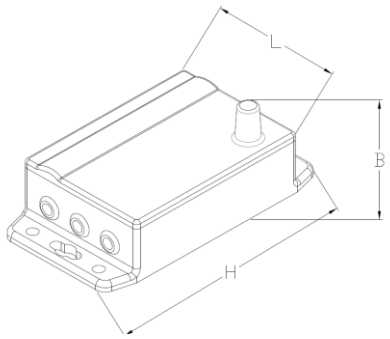
Inputs and outputs for all models:
-2 digital channels for 2 counters with Inductive or Reed or Hall cable
-2 analogue inputs for 2 sensors (e.g. temperature, level, pressure sensors)
-2 digital outputs for 1 or 2 actuators (e.g. 1 solenoid valve or 2 leds)

Indoor and outdoor installation
Data security via multi-level encryption
Modification of configuration data possible remotely from landline and/or via radio terminal
Transmitted alarms: mechanical fraud (removal, cable cut), reverse flow, battery low
IP 67 module for indoors and IP 68 resined for outdoors
Available in a LoRaWAN-only version or a WMBUS OMS-only version

SMART READING

Technical specifications separated radio module G2-RF

Counter detection	Pulsed input (Inductive or Reed or Hall cable)
Battery life	Up to 13 years under standard configuration conditions
Power supply	3.6 V lithium battery
Maximum pulse frequency	10 Hz
Environmental operating conditions	-10 °C ... +55 °C
Radio transmission activation	Via actuator on instrument body
Storage temperature	-20 °C ... +60 °C
Degree of protection	IP 67 (IP 68 resin coated)
Certification	CE, EMC (electromagnetic compatibility)



Overall Dimensions	
Width L (mm)	60
Height B (mm)	43
Length H (mm)	113

LoRaWAN protocol specifications

	Fixed Network
Network type	Freq. 868 Mhz prot. LoRaWAN certified (915Mhz frequency on request)
Transmitted data	Sensor ID, consumption data, hardware status, battery level, alarms: mechanical fraud (removal), reverse flow, battery low,temperature on site on request
Change configuration data	Possible from remote or via radio terminal
Flexibility	On request the system automatically switches between the protocols LoRaWAN and W-Mbus OMS
Activation	OTAA-ABP
Transmission interval	1 single reading daily and 2 daily history transmissions
Transmission distance	Up to 14 km in ideal conditions

Technical characteristics of Wireless OMS M-Bus protocol

	Walk-by/Drive-by
Network type	Freq. 868 Mhz W-MBus OMS approved
Transmitted data	Sensor ID, consumption data, hardware status, battery level, alarms: mechanical fraud (removal), reverse flow, low battery, temperature on site on request
Change configuration data	Possible via radio terminal
Transmission distance	Up to 500mt in optimal conditions

Technical specifications NB-Iot protocol

Transmission	Two-way communication over a fixed network using the NB-IoT cellular standard
Transmission interval	Each 3 days (customisable)
Communication protocol	MQTT
Edit configuration data	Available via remote access and/or local NFC
Data transmitted	Sensor ID, consumption data, hardware status, alarms,
Alarms transmitted	Mechanical tampering (removal), reverse flow, low battery, etc..
Communication interface	NFC for installation, configuration and data recovery
Data-logger	via NFC, with data recovery with mobile App

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AQUA European Association of Smart Meter Manufacturers