# G2 misuratori

*THE VALUE OF METERING*

Made in ITALY

*SMART READING*


**Radio modules with a frequency of 868 Mhz, with the possibility of simultaneously transmitting the data of 1 or 2 meters, with the protocols listed below**.

Radio module Mod. **G2-RF-SLW**

**LoRaWAN protocol for fixed network and LoRa for Walk-by/Drive-by**

Radio module Mod. **G2-RF-WMB**

**W-Mbus OMS protocol for Walk-by/Drive-by**

Radio module Mod. **G2-RF-W+L**

**LoRaWAN protocol for fixed network and LoRa for Walk-by/Drive-by + W-Mbus OMS protocol for Walk-by/Drive-by**

**W-Mbus OMS protocol for Walk-by/Drive-by**

Indoor and outdoor installation

Data security via multi-level encryption

Modification of configuration data possible from fixed network remotely and/or via radio terminal

Transmitted alarms: mechanical fraud (removal, cable cut), reverse flow, low battery, leakage alarm

IP 67 module for indoors and IP 68 resined for outdoors

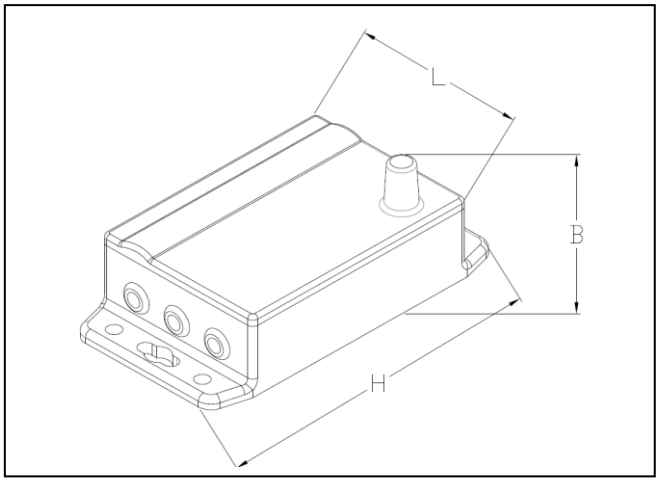
CE certified

Models available complete with or without connection cable

# SMART READING

**Technical specifications**

| | |
|---|---|
| **Counting 1 / 2 counters** | Separate sensor (can be supplied on request) |
| **Type** | Microprocessor device |
| **Battery life** | 10 years * |
| **Environmental operating conditions** | + 5 °C ... +55 °C -10 °C ... +55 °C (resistive) |
| **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, European Electromagnetic Compatibility Directive |




| **Overall dimensions** | |
|---|---|
| **Width L (mm)** | 60 |
| **Thickness B (mm)** | 43 |
| **Length H (mm)** | 113 |

**LoRaWAN and Lora protocol specifications**

| | **LoRaWan-** | **Walk-by/Drive-by LoRa** |
|---|---|---|
| **Network type** | Freq. 868 Mhz prot. LoRaWAN | Freq. 868 Mhz prot. LoRa with proprietary protocol |
| **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 landline or radio terminal | Possible via radio terminal |
| **Flexibility** | Automatically switches between the 2 settings according to programming | |
| **Activation** | OTAA-ABP | / |
| **Transmission interval** | 1 single reading every day and 2 daily history transmissions | Configurable by day and time of week |
| **Transmission distance** | Up to 14 km in optimal environmental conditions | Up to 1km in open field or 100 linear metres for manhole installation with cast iron manhole cover |

**Technical characteristics of Wireless M-Bus protocol**

| | **Walk-by/Drive-by W-M-Bus** |
|---|---|
| **Network type** | Freq. 868 Mhz W-MBus conforme OMS |
| **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 landline or radio terminal |
| **Transmission distance** | Up to 500mt in optimal environmental conditions |

Digital input type N: with dry contact.
Open-Drain digital output driving up to 30V, 1A
3.6V battery power supply with 10 years' duration in the specified conditions of use.
RED and GREEN LEDs for signalling module status (e.g. TX or RX)

* Note :
1- The battery is only intended to power the module, so all external sensors and actuators must be powered separately.
2- Battery life with LoRaWan protocol is guaranteed with a maximum of 3 daily transmissions with the module configured in Class A. To be able to interact in continuous mode with the module, it will be necessary to configure the module in Class C and supply it externally with mains voltage.



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