

Made in ITALY

SMART READING

## Smart Parking

free/busy place signalling

free/busy place signalling

Mod. G2-SP-SLW      Mod. G2-SP-WMB      Mod. G2-SP-W+L

LoRaWAN™      M-Bus      LoRaWAN™  
LoRa      OMS®      M-Bus™  
wireless      OMS®

Radio modules with 868 Mhz frequency, for transmission of parking sensor status, with the protocols listed below.

Radio module Mod. **G2-SP-SLW**  
**LoRaWAN** protocol for fixed network and **LoRa** for Walk-by/Drive-by

Radio module Mod. **G2-SP-WMB**  
**W-Mbus** OMS protocol for Walk-by/Drive-by

Radio module Mod. **G2-SP-W+L**  
**LoRaWAN** protocol for fixed network and **LoRa** for Walk-by/Drive-by +  
**W-Mbus** OMS protocol for Walk-by/Drive-by

The device has a digital input to read the status of a station (free or occupied) and send it via radio to the control unit where the number of free/occupied stations will be totalled.

The module also has two digital outputs that can be used to signal the status of individual parking spaces by means of Red and Green LEDs (external to the module).

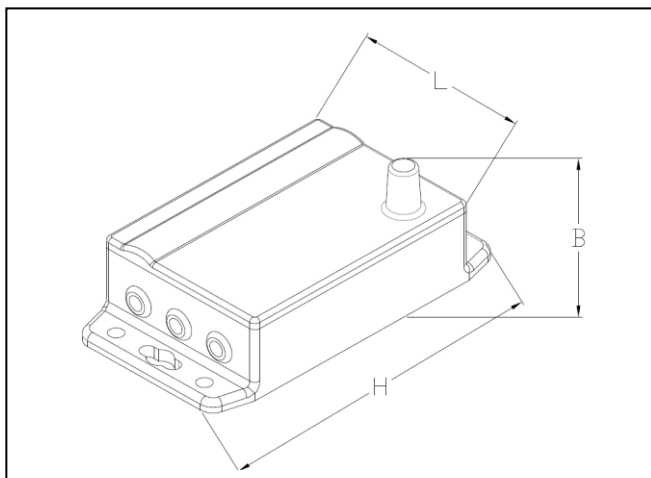
These LEDs can be controlled either automatically by the module or through a command from the control unit, for example to force a signal of occupied parking space in the event of maintenance even if there is no vehicle present

# SMART READING



## Technical specifications

<b>Input detection</b>	External digital sensor (max 6 not supplied)
<b>Output</b>	Up to 2 digital outputs
<b>Type</b>	Microprocessor device
<b>Battery life</b>	10 years *
<b>Environmental operating conditions</b>	+ 5 °C ... +55 °C -10 °C ... +55 °C (resin coated)
<b>Radio transmission activation</b>	Via actuator on instrument body
<b>Storage temperature</b>	-20 °C ... +60 °C
<b>Degree of protection</b>	IP 67
<b>Certification</b>	CE, European Electromagnetic Compatibility Directive



Overall dimensions	
<b>Width L (mm)</b>	60
<b>Thickness B (mm)</b>	43
<b>Length H (mm)</b>	113

Indoor and outdoor installation  
 Data security via multi-level encryption  
 Modification of configuration data possible remotely from fixed network and/or via radio terminal  
 IP 67 module for indoors and IP 68 resined for outdoors  
 CE certified  
 Models available with or without connection cable

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 under 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..

## LoRaWAN protocol specifications

	LoRaWan-	Walk-by/Drive-by LoRa
<b>Network type</b>	Freq. 868 Mhz prot. LoRaWAN	Freq. 868 Mhz prot. LoRa with proprietary protocol
<b>Transmitted data</b>	Sensor ID, consumption data, hardware status, battery level, alarms: mechanical fraud (removal), reverse flow, battery low	
<b>Change configuration data</b>	Possible from remote landline or radio terminal	Possible via radio terminal
<b>Flexibility</b>	Automatically switches between the 2 settings according to programming	
<b>Activation</b>	OTAA-ABP	/
<b>Transmission interval</b>	1 single reading every day and 2 daily history transmissions	Configurable by day and time of week
<b>Transmission distance</b>	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
<b>Network type</b>	Freq. 868 Mhz W-MBus conforme OMS
<b>Transmitted data</b>	Sensor ID, consumption data, hardware status, battery level, alarms: mechanical fraud (removal), reverse flow, battery low
<b>Change configuration data</b>	Possible from remote landline or radio terminal
<b>Transmission distance</b>	Up to 500mt in optimal environmental conditions

The Company reserves the right to make changes to technical data and product illustrations. – 10/20



**G2 misuratori S.r.l. -**  
**Via San Martino, 38 – 14100 ASTI (AT) – ITALY**  
**Tel. +39. 0141.721787– Fax +39.0141.702280**  
**E-mail: info@g2misuratori.it**  
**Http://www.g2misuratori.it**



**Filiale Centro-Sud**  
**Via Fontanelle, 3 – 00020 RIOFREDDO (RM) – ITALY**  
**Tel. e Fax +39.0774.920216**  
**E-mail: centrosud@g2misuratori.it**

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