

G2 misuratori

THE VALUE OF METERING



Made in ITALY

SMART METERS



- ❑ Direct-reading smart meters with radio data transmission:
 - water meter with radio module Mod. **DUF-R-WMB** protocol **W-Mbus OMS** for **Walk-by/Drive-by**
 - water meter with radio module Mod. **DUF-R-W+L** protocol **LoRaWAN** for **fixed network** + protocol **W-Mbus OMS** for **Walk-by/Drive-by**: the system **automatically** switches between the fixed-network protocol and the walk-by/drive-by protocol
 - water meter with radio Mod. **DUF-R-CNB-IOT** with **protocol MQTT***
- ❑ Single-jet meter, with a 360° rotatable dry dial for turbid and highly calcareous water, featuring magnetic drive, with DN 15-20 **R80H**, UO-D0, T50
- ❑ Inductive transmission between the mechanical and electronic components. The radio module can be replaced
- ❑ All models are **MID**-approved in accordance with the current Directive
- ❑ All models are certified for use with drinking water in accordance with **Ministerial Decree 174 of 6 April 2004**
- ❑ Transmitted consumption data, net of any reverse flows
- ❑ Multi-layered cryptographic data security
- ❑ Available in a LoRaWAN-only version

SMART METERS

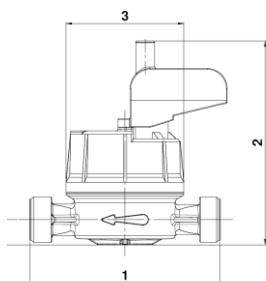


Technical Specifications - DN in mm- inches

	15-1/2	20-3/4
Permanent Flow Rate Q_3 (m³/h)	2,5	4,0
Overload capacity Q_4 (m ³ /h)	3,125	5,0
Transition flow rate Q_2 with measuring range R80H [MPE $\pm 2\%$] (l/h)	50	80
Minimum flow rate Q_1 with measuring range R80H [MPE $\pm 5\%$] (l/h)	31,25	50
Starting flow with measurement range R80H (l/h)	6	11
Accuracy class	2	2
Pressure drop class ΔP (bar)	0,63	0,63
Maximum permissible operating pressure MAP (bar)	16	16
Dial display range min/max (m ³)	0,0001 / 100,000	0,0001 / 100,000
1) Length of the meter excluding fittings (mm)	110-80 115-170	130
Length of the meter including fittings (mm)	190-160 195-250	228
2) Maximum height when the lid is open (mm)	138	143
3) Maximum height when the lid is closed (mm)	70	74
4) maximum overall diameter (mm)	72	72
5) Distance between the pipe and the meter mounting surface (mm)	16	19
Weight including fittings (kg)	0,660	0,840
Weight excluding fittings (mm)	0,500	0,600

Available options on request:

- DUIC model for hot water**
- Resin coating
- LoRaWAN protocol operating at 915 MHz



Technical specifications of the radio module

Meter reading	Inductive sensor
Battery life	13 years
Operating environmental conditions	-10 °C ... +55 °C
Enable radio transmission	Via an actuator integrated into the instrument body
Storage temperature	-20 °C ... +60 °C
Degree of protection	IP68
Certification	EC, European Directive on Electromagnetic Compatibility, LoRaWAN-certified product, and OMS

Technical specifications of the LoRaWAN protocol

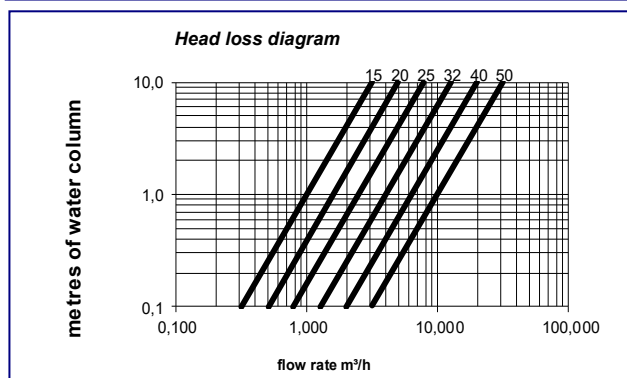
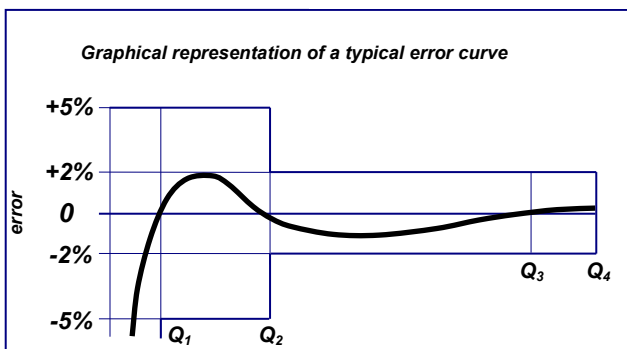
	Fixed network
Network type	Frequency: 868 MHz, LoRaWAN certified protocol (915 MHz frequency on request)
Data transmitted	Sensor ID, consumption data, hardware status, battery level, alarms: tampering (removal), reverse flow, low battery, leaks, on-site temperature, on request
Edit configuration data	Possible from remote or via a radio terminal
Flexibility	On request the system automatically switches between the protocols LoRaWAN and W-Mbus OMS
Activation	OTAA-ABP
Transmission interval	1 daily reading and 2 daily history reports
Transmission distance	Up to 14 km in ideal conditions

Technical specifications of the Wireless M-Bus protocol

	Walk-by/Drive-by
Network type	Frequency 868 MHz, W-MBus compliant with OMS
Data transmitted	Sensor ID, consumption data, hardware status, battery level, alarms: tampering (removal), reverse flow, low battery, leaks, on-site temperature, on request
Edit configuration data	Possible via radio terminal
Transmission distance	Up to 500 metres in ideal conditions

Technical specifications for NB-IoT transmission

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



The Company reserves the right to make changes to technical specifications and product illustrations - 04/26



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