

G2 misuratori

THE VALUE OF METERING



Made in
ITALY

SMART METERS

QDFM Smart Meter

**DN 15-25-32-40
R200H-R63V
DN 20 e DN 50
R315H-R63V**

Mod. QDFM-R-CLW Mod. QDFM-R-WMB Mod. QDFM-R-W+L

- Direct reading smart meter with data transmission via radio frequency 868 Mhz, with the protocols listed below.
- Counter with radio module Mod. QDFM-R-CLW LoRaWAN protocol for fixed network and LoRa for Walk-by/Drive-by
- Counter with radio module Mod. QDFM-R-WMB W-Mbus OMS protocol for Walk-by/Drive-by
- Counter with radio module Mod. QDFM-R-W+L LoRaWAN protocol for fixed network and LoRa for Walk-by/Drive-by + W-Mbus OMS protocol for Walk-by/Drive-by: the system automatically switches between fixed network and Walk-by/Drive-by protocols
- Single jet counter, with protected rollers and fully protected dry dial, with mechanical transmission, R200H R63V, UO-D0, T50
- All models can be equipped with serial number and corresponding bar code or Qr code indelibly engraved on the dial and on the radio label
- Inductive transmission between mechanical and electronic parts. 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 according to D.M. 174 of 6/4/2004
- Transmitted consumption data, net compensated for any reverse flows
- Multi-level cryptographic data security
- Transmitted data: sensor ID, consumption data, hardware status, alarms, battery level, leaks
- Data security via multi-level encryption
- Modification of configuration data possible from fixed network remotely and/or via radio terminal
- Resin-coated IP 68 module for outdoor use - CE certified

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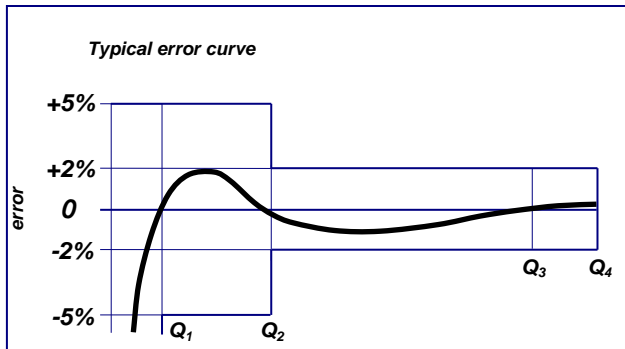
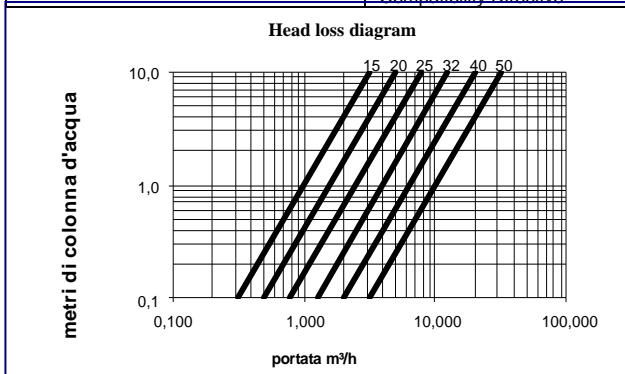
Technical data meter mechanical part
DN in mm - inches

	15 - 1/2"	20 - 3/4"	25 - 1"	32 - 1.1/4"	40 - 1.1/2"	50 - 2"
Permanent flow rate Q3 (m³/h)	2,5	4,0	6,3	10	16	25
Overload flow rate Q4 (m³/h)	3,125	5,0	7,875	12,5	20	31,25
Transitional flow rate Q2 with measuring range R200H [MPE ±2%] (l/h)	20	32	50,40	80	128	200
Minimum flow rate Q1 with measuring range R200H [MPE ±5%] (l/h)	12,50	20	31,50	50	80	125
Sensitivity with R200H measuring range (l/h)	3	5	8	8	15	18
Accuracy class	2					
Environmental class	C (-25°C + 55 °C)					
Pressure loss class ΔP (bar)	0,63					
Maximum permissible operating pressure MAP (bar)	16 (25 on request)					
1) Length of meter without fittings (mm)	110-115-130 145-165-170 190	130-160-165 190	160-220-260	160-220-260	200-300	300
Length of meter including fittings (mm)	190-195-210 225-245-250 270	260-265 290	320-360	320-360	440	460
2) Maximum overall height with open cover (mm)	162	162	177	177	187	197
3) Maximum overall diameter (mm)	96	96	100	100	136	136
4) Distance between pipe and meter support surface (mm)	35	35	40	40	60	70
Weight with connection kit (kg)	1,650	1,800	3,200	3,500	6,100	9,700
Weight without connection kit (kg)	1,500	1,550	2,750	2,800	5,100	7,400

R40H to R315H R40V to R63V to be specified when ordering - Non-return valve incorporated in the outlet duct on request

Radio module specifications

Counter detection	Inductive sensor
Battery life	10 years
Environmental operating conditions	-10 °C ... +55 °C
Radio transmission activation	Via actuator on instrument body
Storage temperature	-20 °C ... +60 °C
Degree of protection	IP68
Certification	CE, European Electromagnetic Compatibility Directive

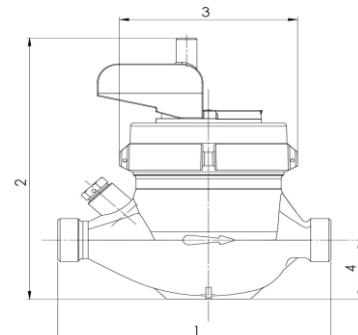


LoRaWAN and Lora protocol specifications

	Fixed network	Walk-by/Drive-by
Network type	Freq. 868 Mhz prot. LoRaWAN Freq. 868 Mhz prot. LoRa with proprietary protocol	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, low battery, leaks, temperature on site on request	
Change configuration data	Possible from remote landline or via radio terminal Possible via radio terminal	Possible from remote landline or via radio terminal Possible via radio terminal
Flexibility	Automatically switches between the 2 settings according to programming	
Activation	OTAA-ABP /	OTAA-ABP /
Transmission interval	1 single reading daily and	1 single reading daily and
Transmission distance	2 daily history transmissions Configurable by day and time of week	2 daily history transmissions Configurable by day and time of week

Technical characteristics of Wireless M-Bus protocol

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



The Company reserves the right to make changes to technical data and product illustrations.



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