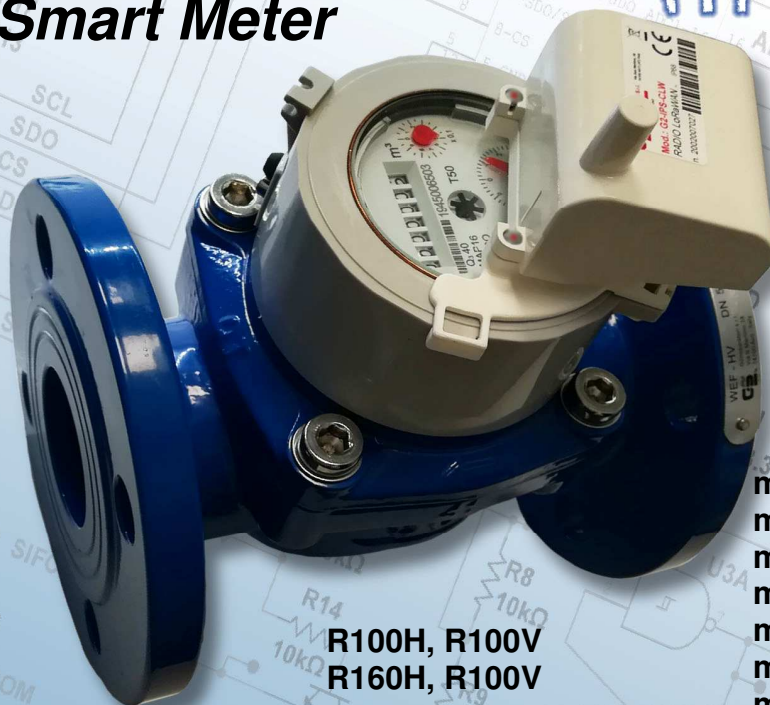




SMART METERS

WEF-HV Smart Meter



R100H, R100V
R160H, R100V

mm	50	2"
mm	65	2.5"
mm	80	3"
mm	100	4"
mm	125	5"
mm	150	6"
mm	200	8"

Mod. WEF-R-CLW

Mod. WEF-R-WMB

Mod. WEF-R-W+L



LoRaWAN™
LoRa®



M-Bus®
OMS®



LoRaWAN™
M-Bus®
OMS®

- Direct reading smart meter with data transmission via radio frequency 868 Mhz, with the protocols listed below.
-
- -Counter with radio module Mod. WEF-R-CLW LoRaWAN protocol for fixed network and LoRa for Walk-by/Drive-by
- -Counter with radio module Mod. WEF-R-WMB W-Mbus OMS protocol for Walk-by/Drive-by
- -Counter with radio module Mod. WEF-R-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: the system automatically switches between fixed network and Walk-by/Drive-by protocols.
- Whirlpool meter, gauges DN 50 to DN 200, temperature class T50, measuring range R80H Internal measuring mechanism can be inspected without removing the meter from the system - with DRY dial for turbid and strongly calcareous water.
- Inductive transmission between mechanical and electronic parts. Radio module can be replaced
- All models are MID-approved according to the applicable directive (module B+D), in accordance with EN 14154, OIML R49 and ISO 4064
- Requirements for straight pipe sections: U0/D0
- Installation permitted in any position (for non-horizontal installations, flow must be upwards.
- Transmitted consumption data, net compensated by possible 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
- Available on request LoRaWAN protocol with 915Mhz frequency

SMART METERS



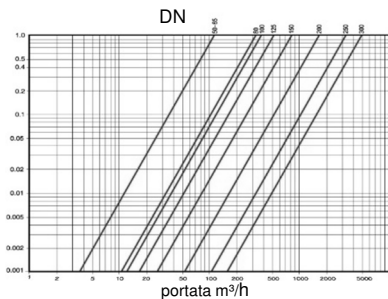
Technical data – DN in mm	50	65	80	100	125	150	200
Permanent flow rate Q3 (m³/h)	40	63	100	160	160	250	400
Overload flow rate Q4 (m³/h)	50	78,75	125	200	200	312,5	500
Transitional flow rate Q2 R80 [MPE ±2%] (m³/h)	0,8	1,26	2	3,2	3,2	5	8
Minimum flow rate Q1 R80 [MPE ±5%] (m³/h)	0,5	0,7875	1,25	2	2	3,125	5
Sensitivity (m³/h)	0,15	0,15	0,25	0,30	0,5	0,8	2
Measuring range R *	80H	80H	80H	80H	80H	80H	80H
Max. permissible operating pressure MAP (bar)	16	16	16	16	16	16	16
Maximum reading unit (m³)	10 ⁶	10 ⁶	10 ⁶	10 ⁶ / 10 ⁷	10 ⁶	10 ⁶ / 10 ⁷	10 ⁸
Minimum reading unit (l)	0,5	0,5	0,5	5	0,5	5	50
Inductive predisposition value *	K10	K10	K10	K10	K10	K100	K1000
L) Length (mm)	200	200	225	250	250	300	350
H) Height (mm)	239	254	259	275	297	344	377
B) Max. overall diameter (mm)	165	185	200	220	250	285	340
h) Distance between pipe and meter support surface of meter (mm)	70	85	90	106	120	140	172
Weight (kg)	13	15,5	16	19,5	22,5	40	41,5

* Other K available on request - Other R in horizontal and vertical available on request

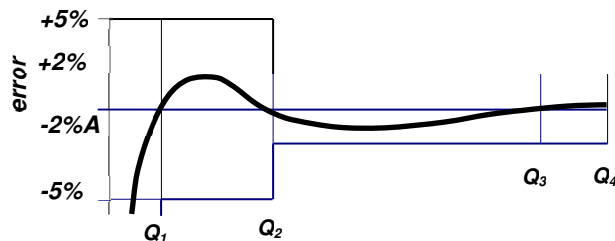
Radio module specifications

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

Head loss diagram



Typical error curve



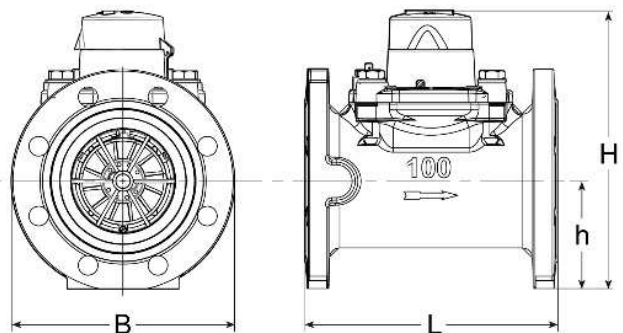
The Company reserves the right to make changes to technical data and product illustrations. – 11/20

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 (on request 915Mhz frequency)	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	2 daily history transmissions Configurable by day

Specifications 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, low battery, leakage, temperature on site on request
Change configuration data	Possible via radio terminal
Transmission distance	Up to 500 mt in optimal conditions



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CERTIFICATO DA DNV
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ISO 45001