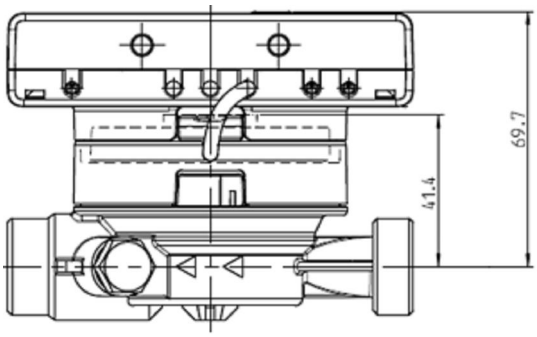
G2 misuratori

Water and heat meters

COMPACT2 DN 15 e DN 20

- Compact electronic heatmeter, suitable for heat consumption measurements for central heating/cooling applications, and for hot water production sites
- Mid Directive 2014/32/EU, annex MI004
- Accuracy class EN 1434 Class 2
- Electromagnetic Class E1/Mechanical class M1
- Electronic Unit Protection Class IP65
- The meter is made of 03 main units: ultrasonic flow sensor, split electronic unit (85cm), pair of temperature sensors (1 inserted in the body, 1 loose)
- Bi-directional inductive detection (reverse flow) and air presence
- Powered by 3V lithium battery (replaceable), estimated duration of 10 years depending on environmental/working conditions or preset for external electrical power;
- Possible installation on delivery pipes through software configuration
- Available version for high temperature for district heating (130°max)

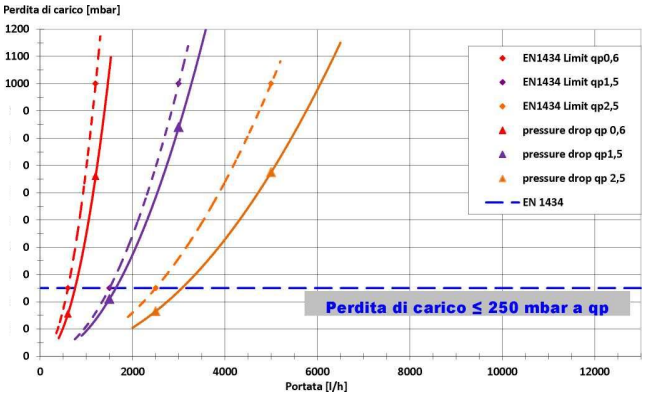


Options:
M-bus EN1434-3 output + 3 pulsed inputs for cold and hot water meters
M-bus EN1434-3 output Wireless M-bus output 868Mhz OMS + 3 pulsed inputs for cold and hot water meters
Double pulsed output energy/volume (only heating version) or energy/energy (heating/cooling version)
Double recording for cooling/heating consumption
Power 230V or 24V

Accessories:
TEE couplings 1/2" 3/4" for wet mounting
TEE couplings with ball valve 5mm F/F 1/2" 3/4" for wet mounting
Kit of couplings (2 nuts/2 tailpieces/2 gaskets) 1/2" x 3/4" / 3/4" x 1"
Y strainer 1/2" 3/4"

Wireless M-Bus EN 13757	
4 selectable modes	S1/T1*: unidirectional S2/T2: bidirectional
Compliance to OMS standard	OMS Spec Vol2 Primary v301 (short telegram)
Transmission Power	-5 dBm, 0 dBm, +9 dBm
Encryption AES 128 bit	AES: Advanced Encryption Standard Key length: 128 bit (set and configurated for each instrument)*
Telegrams (to be chosen from)	Short telegram* energy (heat/cooling, pulse input 1, pulse input 2), total volume, flow, power, hint flag, return flow temperature, temperature difference*
	Long telegram Energy (heat/cooling, pulse input 1, pulse input 2), hint flag, 15 monthly values
Transmission interval (configurable)	2 minutes* - 240 minutes
Transmission period (configurabile)	00:00 - 24:00 / 7:00 - 19:00*
Weekdays (configurable)	Monday –Sunday / Monday - Friday*
Weeks	1 – 4*
Months	1 – 12*
Radio activation date	Not set* (settable by the selection key or by configuration optical kit)
Minimum battery lifetime	7 years (+3 according to the interval of data transmission)

* factoring settings



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		0,6	1,5	2,5
Flow sensor				
Nominal flow rate q_p	m^3/h	0,6	1,5	2,5
Starting flow when installed horizontally	l/h	3,5	7,0	10,0
Starting flow when installed vertically	l/h	4,0	7,0	10,0
Minimum flow rate q_i	l/h	24	60	100
Maximum flow rate q_s	m^3/h	1,2	3,0	5,0
Head loss Δ_p at q_p	bar	0,155	0,210	0,165
Head loss Δ_p at q_s	bar	0,660	0,840	0,675
nominal size	mm	DN 15	DN 15	DN 20
Threads	inches	G3/4B	G3/4B	G1B
Lengths	mm	110	110	130
Dynamic range q_i/q_p		1:25		
Precision class (MID)		3		
nominal Pressure PN	bar	16		
Temperature range -heating	°C	15-90		
Temperatura range - cooling (q_p 1,5 e q_p 2,5)	°C	5-50		
Installation		Cooling system: any position Heating system: horizontal/vertical		
Electronic counter				
Temperature range -heating	°C	0-150		
Temperatura range - cooling (q_p 1,5 e q_p 2,5)	°C	0-50		
Temperature of working environment	°C	5-55 with 95% relative humidity		
Temperature of delivery	°C	-25-70 (for max. 168 hours)		
Temperature of storage	°C	-25-55		
Temperature difference range ΔΘ heating	K	3-100		
Temperature difference range ΔΘ cooling	K	-3- -50		
Temperature min. difference ΔΘ heating	K	> 0,05		
Temperature min. difference ΔΘ cooling	K	< -0,05		
Temperature min. difference $\Delta\Theta_{HC}$ heating/cooling	K	> 0,5/< -0,5		
Temperature resolution	°C	0,01		
Dynamic cycle of temperature measurement	s	2/60; current powered: 2 s permanent		
Power supply		Replaceable 3 V lithium battery, ; all models can be connected to a 3 V power supply (230V/24V)		
Memory		Non volatile		
Data storage		Selectable annual reading data 15 monthly and forthnightly values that can be displayed via wireless M-Bus; 24 monthly and forthnightly values that can be displayed by optical interface or via M-Bus		
2 tariffs recordings		Each can be set indipendently; Energy and hour can be addedd		
Record of max. values		Flow and power		
Protection grade		IP65		
Electromagnetic class		EN 1434		
Pair of temperature (2 wires)				
Platinum precision resistance		Pt 1000		
Diameter	mm	5; 5,2; 6; AGFW 27,5; 38; needle sensor 3,5 x 75		
Cable length	m	1,5; 3; 6		
Installation		Asimmetric; simmetric		
Weight				
Not splittable calculator	kg	0,755	0,755	0,795
Splittable calculator	kg	0,840	0,840	0,880
Dimensions				
Pulse cable length	m	0,50		
Calculator housing (h x l x p)	mm	75 X 110 X 34,5		
Threads		G3/4", DN15	G3/4", DN15	G1", DN20

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