



Aquadis+ PE

Accurate billing for sub metering application

Aquadis+ volumetric water meter is especially designed to provide reliable and accurate measurement in cold and hot water.

The most typical application is in collective housing where the accurate individual billing with Aquadis+ allow to properly control and account the global building consumption.

FEATURES AND BENEFITS

- » Accurate and Efficient
- » Any installation position
- » Compact and Silent
- » Pre-equipped for Communication

Accurate



Aquadis+ has starting flow value < 3 l/h allowing the detection of drop to drop condition, representing 25 m³ of not invoiced water par year.

It is capable to measure at 10 l/h inside the metrology channel, reducing the not accounted water amount that could represent even 80 m³ par year in case of use of not appropriated water meters. demands are accurately monitored initially and over time.

Easy to Use

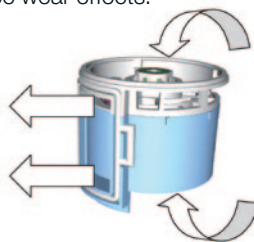
Aquadis+ can be installed in horizontal or vertical position without effect on accuracy and thanks to the magnetic transmission, it is possible to rotate the register for a better reading comfort. The clear and wide 8 rollers facilitate the reading and the visual leakages detection.

Communication Device

Aquadis+ is always pre-equipped for the "m" module range. The detection working principle is based on the reflecting capacity of the pointer disk assembled on top of one register wheel. Once the module is applied, the count of the meter is transferred over the disk to the electronics and conveyed by cable, by M-Bus or EquaScan wMIU^{RF}.

Technology Highlights

- » Innovative Hydro-dynamically balanced piston enables the detection and account of extremely low flows and reduce wear effects.



- » Extra dry register preserves the rotating wheels and rollers from water exposure reducing wear and tears.
- » Strong and stable magnetic transmission not sensitive to external tampering.

Approvals and Standards

Aquadis+ PE is approved for Q3=1,6 and Q3=2,5 m³/h from Ratio 50 to 160 according with:

- » MID, directive 2004/22/EC
- » European Std EN 14154 - 2005
- » International Standard ISO 4064 – 2005 and complaints with OIML R49 recommendations.

Aquadis+ is compliant with regulations for products to use in contact with water intended for human consumption, granted by the following laboratories:

- » ACS (France)
- » LCCT (Italy)

Options

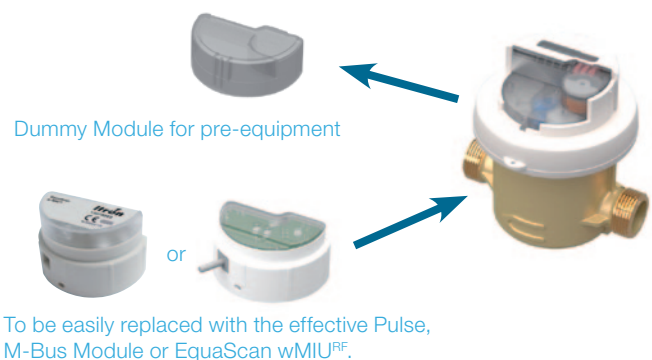
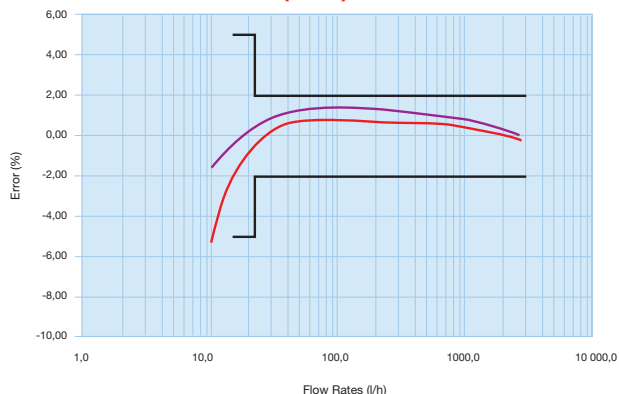
- » Non return-valve for outlet pipe
- » Customer log on the cap

Technical Specifications

Meter Capacity	m³/h	15	20	15	20
MID Type Approval Number		LNE 13636		LNE 16946	
MID Accuracy Ratio (Q3/Q1) - all positions		50 - 160		50 - 160	
Nominal Flow Rate	(Q3) m³/h	1.6	2.5	1.6	2.5
Standard Ratio *	(Q3/Q1)	100	160	100	160
Minimum Flow Rate	(Q1) l/h	16	15.6	16	15.6
Transitional Flow Rate	(Q2) l/h	25.6	25	25.6	25
Overload Flow Rate	(Q4) m³/h	2	3.125	2	3.125
Pressure Loss Class at Q3	bar	0.25	0.63	0.25	0.63
Maximum Admissible Pressure (MAP)	bar	16		16	
Operating Temperature (T)	°C	50		30 - 90	
Climatic Environment Range	°C	5 - 55		5 - 55	
Typical Starting Flow Rate	l/h	<= 2		<= 3	
Testing Pressure	bar	25		25	
Minimum Scale Interval	L	0.02		0.02	
Indication Range	m³	99999.999		99999.999	

* Other Ratios available under specific request

INITIAL TYPICAL CURVE (50°C)

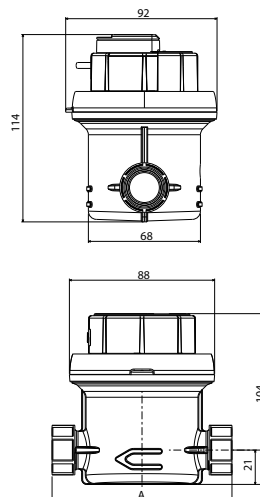


The dynamic range is defined as the Ratio (R) between the nominal and the minimum flowrate. The MID approval proves the Aquadis+ PE real capacity to withstands to higher nominal flows ($Q3 > Qn$).

DIMENSIONS AND WEIGHT

Nominal diameter (DN)	mm	15
	inches	1/2"
Meter Thread	inches	3/4" G
	mm	20 x 27
Length* A	mm	110
Height	mm	104
Height with module	mm	114
Width	mm	88 / 92
Weight	Kg	0.75

* Other Lengths available under specific request



Opto-Electronic system
Safe and highly reliable working principle thanks to magnet-free transmission elements.



Aquadis+ PE register



Our company is the world's leading provider of smart metering, data collection and utility software systems, with over 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water.

To realize your smarter energy and water future, start here: www.itron.com

For more information, contact your local sales representative or agency:

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