

# ResidiaJet

Single jet water meter with modular register and communication module option



## Main Characteristics

### DN 15 - 20

Single jet dry dial meter with magnetic coupling  
Magnetic transmission  
Suitable up to 50 °C as a cold water meter  
Suitable from 30 °C to 90 °C as a warm water meter  
Insensitive to upstream disruptive elements  
355° rotating register  
High resistance to water impurities  
AMR pre-equipped for pulse or radio interface  
Available with non return valve

## Special features

**Protection against external magnetic fields** in accordance with EN 14 154, but over the whole measuring range

**Modular register;** prepared to take an electronic communication module (e.g. M-Bus)

**Option** Factory fitted with an electronic communication module

**Residia-M** M-Bus module for systems in accordance with EN 13757-3 (IEC 870/EN 1434-3)

**Residia-P** Pulse module for digital pulses (e.g. for remote counting)

## Legibility

The display on 8 drums (5 for m<sup>3</sup>, 3 for litres) and 1 pointer ensures perfect readability. The lowest resolution is 0.05 litres. The dial has a central disc whose rotation indicates the water flow. This indicator can be used to reveal a downstream leak.

The ResidiaJet water meter operates in horizontal position and its dry dial can rotate up to 355°. The dial can therefore be easily read under all conditions of use.

## Approvals

EC type-examination certificate

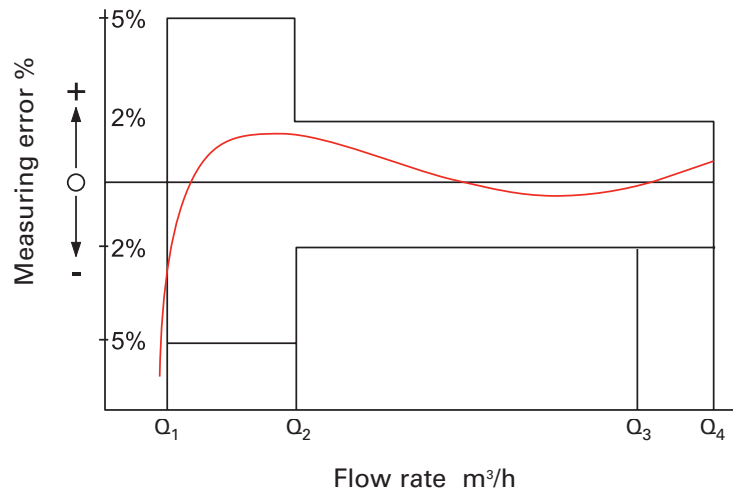
in conformity with

- 2014/32/EU (MID)
- OIML R49:2013
- EN 14154:2005+A2:2011
- ISO 4064:2014

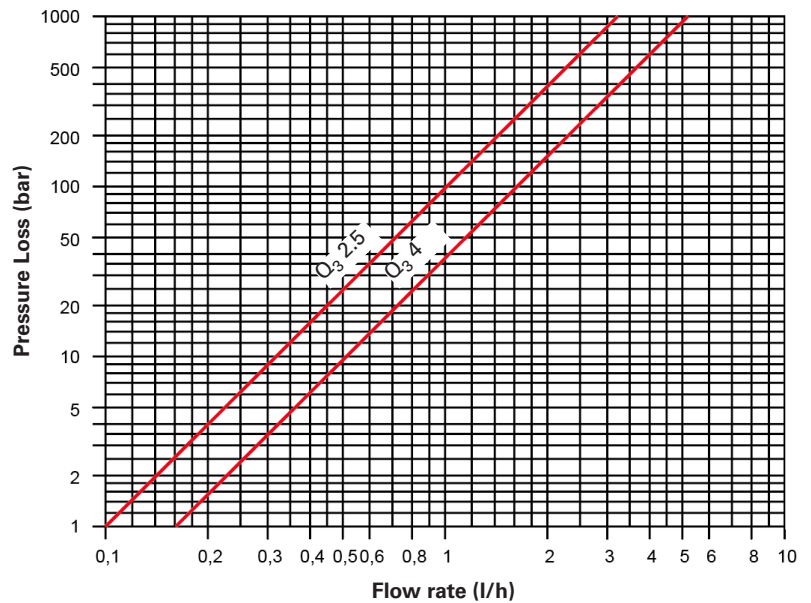
DE-12-MI001-PTB013 (Q<sub>3</sub> 2.5)

DE-16-MI001-PTB008 (Q<sub>3</sub> 4)

## Typical Accuracy Curve



## Typical Head Loss Curve



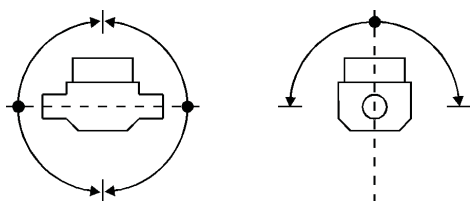
# Technical characteristics

## Metrological characteristics

Nominal Size	2.5 m <sup>3</sup> /h				4 m <sup>3</sup> /h			
	Temperature Range	0.1 °C to 50 °C		30 °C to 90 °C		0.1 °C to 50 °C		30 °C to 90 °C
Installation Position	Horizontal <sup>1)</sup>	Vertical	Horizontal <sup>1)</sup>	Vertical	Horizontal <sup>1)</sup>	Vertical	Horizontal <sup>1)</sup>	Vertical
Flowrate Range:								
Q <sub>3</sub> /Q <sub>1</sub>	80 <sup>2)</sup>	40	80 <sup>2)</sup>	40	80 <sup>2)</sup>	40	80 <sup>2)</sup>	40
Q <sub>2</sub> /Q <sub>1</sub>	1,6							
Q <sub>1</sub>	0.025 m <sup>3</sup> /h	0.063 m <sup>3</sup> /h	0.025 m <sup>3</sup> /h	0.063 m <sup>3</sup> /h	0.040 m <sup>3</sup> /h	0.100 m <sup>3</sup> /h	0.040 m <sup>3</sup> /h	0.100 m <sup>3</sup> /h
Q <sub>2</sub>	0.040 m <sup>3</sup> /h	0.1 m <sup>3</sup> /h	0.040 m <sup>3</sup> /h	0.1 m <sup>3</sup> /h	0.064 m <sup>3</sup> /h	0.160 m <sup>3</sup> /h	0.064 m <sup>3</sup> /h	0.160 m <sup>3</sup> /h
Q <sub>3</sub>	2.5 m <sup>3</sup> /h				4 m <sup>3</sup> /h			
Q <sub>4</sub>	3.125 m <sup>3</sup> /h				5 m <sup>3</sup> /h			
Accuracy Class	± 2% (Q <sub>2</sub> ≤ Q ≤ Q <sub>4</sub> ) for water temperatures ≤ 30 °C ± 3% (Q <sub>2</sub> ≤ Q ≤ Q <sub>4</sub> ) for water temperatures > 30 °C ± 5% (Q <sub>1</sub> ≤ Q ≤ Q <sub>2</sub> )							
Pressure Range	0.3 bar (0.03 MPa) to 16 bar (1.6 MPa)							
Pressure Loss Class ΔP	0.63 bar (at Q <sub>3</sub> )							
Stream profile sensitivity	U0D0							
Environmental Class	O							
Mechanical Environmental Conditions	M2							
Climatic Environmental Conditions	5 °C to 70 °C							
Electromagnetic Conditions	E2							

- 1) no top down installation  
2) Also available in other ratios

## Permissible installation position



Register max. 90° to the side  
(not the overhead position)

Metrological performance up to R125 for Q<sub>3</sub> 2.5 and R100 for Q<sub>3</sub> 4 is achieved only with horizontal installation, register upwards. In vertical installation only R40.

Installation position optional, except overhead position

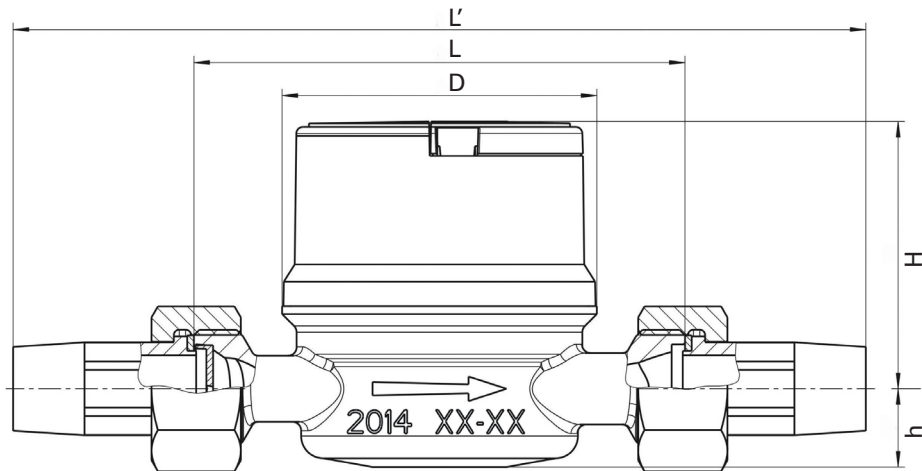
Meter head can be aligned for best readout position

## Sizes and weight

Nominal Size	DN	mm	15				20	
			80	110	115	130	130 <sup>1)</sup>	
Length	L	mm	80	110	115	130	130 <sup>1)</sup>	
Length with connectors	L'	mm	159	189	194	212	227	
Width	D	mm	70	70	70	70	70	
Total height	H	mm	60	60	60	60	60	
Height to pipe axis	h	mm	17.5	17.5	17.5	17.5	17.5	
Piping dimension		inch	R½"	R½"	R½"	R½"	R¾"	
Tail	Diameter		G¾"B	G¾"B	G¾"B	G7/8" x ¾"	G¾"B	G1"
Weight		g	0.41	0.45	0.47	0.48	0.50	

1) Also available in 80 mm, 110 mm and 130 mm

## Dimensions



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Certified according to ISO 9001  
Quality Management System Quality Austria Reg.no. 3496/0

### UK & Ireland Enquiries

Sensus UK Systems Ltd, 3 Lindenwood Crockford Lane, Chineham Business Park  
Basingstoke RG24 8QY UK  
T: +44 (0) 1256 372800 F: +44 (0) 1256 707203 Email: info.gb@xyleminc.com [www.sensus.com](http://www.sensus.com)

### International Enquiries

Sensus GmbH Ludwigshafen Industriestrasse 16, 67063 Ludwigshafen, Germany  
T: +49 (0) 621-6904-0 F: +49 (0) 621-6904-1409 Email: info.int@xyleminc.com [www.sensus.com](http://www.sensus.com)