residia JET-C

Qn 1,5

Single jet water meter with
composite housing and modular register
with option: "base r" radio module

Main features

Housing made of high grade composite material

Modular register
Prepared to take an electronic communications module (e.g. Radio, M-Bus)

Option: Factory fitted with **"base r" radio module**
Fully compatible with „SensusBase" submeter radio system

Adjustable connection union
(Patent applied for)
Compensates for dimensional differences at the measuring point
Installed length: ±2,5 mm
Axial: ±1,5 mm

Single jet completely dry meter with magnetic coupling

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

Suitable up to 30°C as a cold water meter

Suitable up to 90°C as a hot water meter

Installation position optional, except the overhead position

Meter head can be aligned for the best readout position

Benefits of the composite housing

Absolute and uncompromising conformity with the pertinent drinking water guidelines

Absolute corrosion resistance
- in damp environments
- with aggressive water

Advantageous installation due to adjustable connection union
- stress-free installation
- longitudinal and axial adjustment

Valuable contribution to environmental protection
- Environmentally friendly materials
- Energy saving manufacturing process
- 40% weight reduction
- Optimal recycling capability

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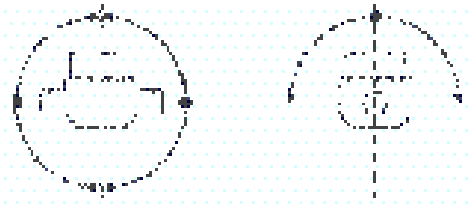
SENSUS METERING SYSTEMS

Permissible Installation position



horizontal
inclined
vertical

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

Metrological Class B is achieved with horizontal installation, register upwards

Performance data

Rated flow rate	Q_n	m^3/h	1,5
Maximum flow rate	Q_{max}	m^3/h	3,0
Transitional flow rate	Q_t	l/h	120
Minimum flow rate:			
horizontal installation; register upwards	Q_{min}	l/h	30
vertical installation or register inclined	Q_{min}	l/h	60
Maximum Working pressure	PN	bar	10
Test pressure	P	bar	16
Pressure loss at Q_{max}		bar	1
Flow rate at 1 bar pressure loss		m^3/h	3
Maximum water temperature:			
Cold water version		°C	30
Hot water version		°C	90
Display range		m^3	100000
Minimum reading (can only be read off if no module is fitted on) l		0,1	

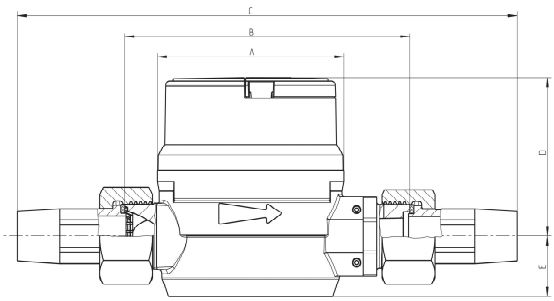
Technical Data for the optional communication module

Base r radio module

Working voltage	DC 3 V (Lithium battery)
Battery life	12 + 1 years
Radio frequency	868,3 MHz
Transmission power	< 5 mW
Transmission frequency	6 times / 24 h
Ambient temperature	
For transport and storage	- 25 … + 60°C
In operation	0 … 55°C
Enclosure class	IP 65

Other communication modules on request

Dimensional picture



Dimensions and weights

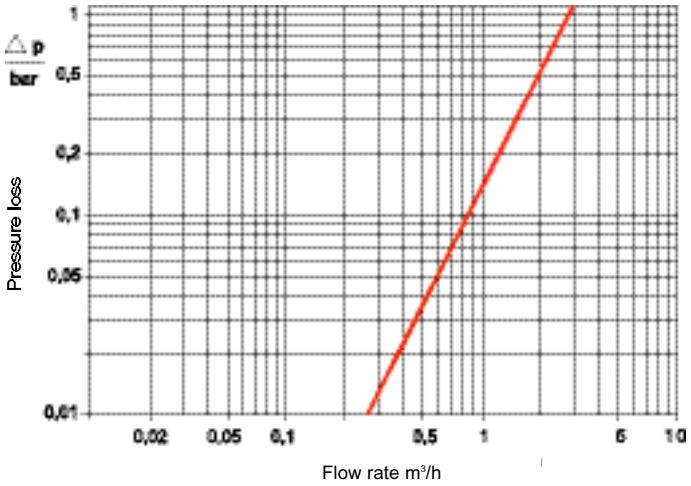
Installed length		mm	110*
Meter fitting thread		inches	G 3/4
Pipe connection thread		inches	R 1/2
Dimension	a	mm	70,5
	b	mm	110*
	c	mm	189
	d	mm	60
	e	mm	23
Weight		kg	0,27

* variable ± 2,5 mm

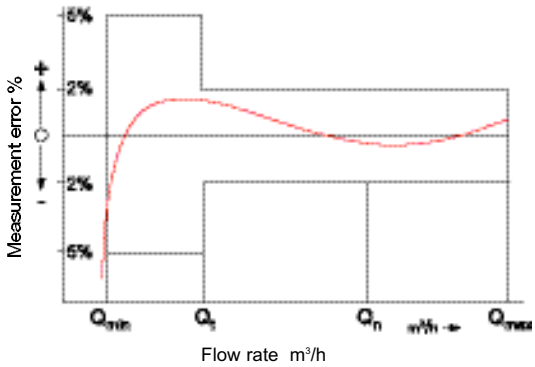
Materials

Housing:	Composite
Impeller:	Plastic
Impeller shaft:	Bronze
Annular magnets:	Ceramic permanent magnets
Sealing plate:	Plastic
Gears and drives:	Plastic
Cowl:	Plastic
Bearing jewels:	Sapphire

Typical pressure loss curve



Typical measurement error curve



Ordering instructions

The meter is defined by a variant configurator. The Order Ref. No. (Order Ref. Code) is formed by inserting the particular feature codes at the relevant place.

The following table names all selectable features and their codes.

Boxes 5, 10 and 11 must be filled in.

The standard variants with Order Ref. No. are listed following the summary below.

			Boxes / positions in the Order Ref. No										
Feature	Feature value	Code	1	2	3	4	5	6	7	8	9	10	11
	Coding / Order Ref. No.>		R	S	B	E		B	C	E	U		
Meter type	Single jet meter	RS											
Nominal size	Qn 1,5	B											
Approval	EU	E											
Medium-Temperature	Cold water 30ªC	K											
	Hot water 90ªC	W											
Installed length / Connection	110 mm R 1/2" (G 3/4")	B											
Housing	Composite	C											
Logo/Labelling	Europe Standard	EU											
Metrol. Class/Calibration	EAH	1											
	EBH	2											
Communication module	No module	X											
	Radio module Base-R	R											

Example:
Single jet meter; Qn 1.5; Europe version; for cold water
Installed length 110 mm R 1/2"; composite housing;
Europe-Labelling; Class B; no module

Order Ref. No.	R	S	B	E	K	B	C	E	U	2	X

Order Ref. Numbers for standard variants

Model designation	Temperature stage	Installed length / Connection	Order Ref. No.
Residia-JET-C Qn 1,5	30° C	110 mm R $^{1}/_{2}$" (G $^{3}/_{4}$")	88125321
Residia-JET-C Qn 1,5	90° C	110 mm R $^{1}/_{2}$" (G $^{3}/_{4}$")	88125331