



Special features

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

Option Factory fitted with an electronic communication module

base r Radio module, fully compatible with "SENSUSBase" submeter radio system

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)

Single jet dry dial 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

Option: Protective cover



Meter fitted with a push on cowl and hinged plastic protective cover, dark blue

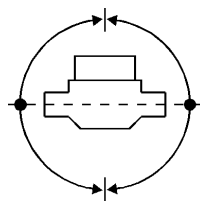
UK & Ireland Enquiries
Sensus Metering Systems
11 The Quadrangle, Abbey Park,
Romsey, Hampshire SO51 9DL UK
T: +44 (0) 1794 526100
F: +44 (0) 1794 526101
Email: info.gb@sensus.com

www.sensus.com

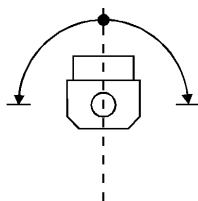
International Enquiries
Sensus Metering Systems GmbH Ludwigshafen
Industriestrasse 16,
67063 Ludwigshafen Germany
T: +49 (0) 621-6904-0
F: +49 (0) 621-6904-1409
Email: info.int@sensus.com

www.sensus.com

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

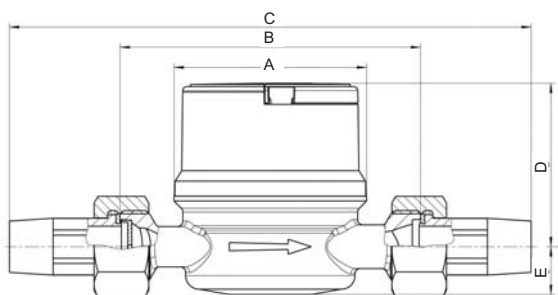
Rated flow rate	Q_n	m ³ /h	1	1.5	2.5
Maximum flow rate	Q_{max}	m ³ /h	2	3	5
Transitional flow rate	Q_t	l/h	80	120	200
Minimum flow rate:					
horizontal installation; register upwards	Q_{min}	l/h	20	30	50
vertical installation or register inclined	Q_{min}	l/h	40	60	100
Maximum Working pressure	PN	bar	10		
Test pressure	P	bar	16		
Pressure loss at Q_{max}		bar	1		
Flow rate at 1 bar pressure loss		m ³ /h	2	3	5
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)			0.1		

Optional communication modules

Option of factory installed or delivered separately for retrofitting to installed meters

Type	Function	Material No.	To Data Sheet
Base-R	Radio module, fully compatible with the SENSUS base system	04410508	LS 2100
Residia-M	M-BUS module for installations to EN 13757-3 (IEC 870 / EN 1434-3)	in preparation	LS 8300
Residia-P	Pulse module (e.g. for remote counting)	in preparation	LS 8200

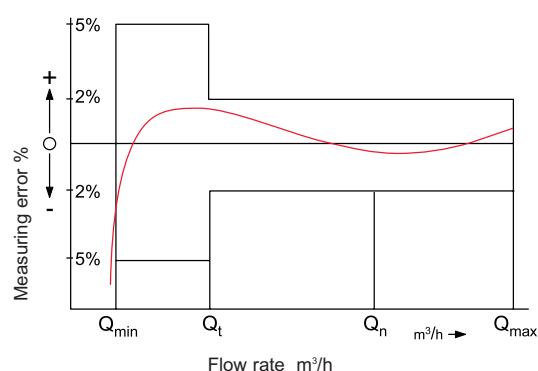
Dimensional drawing



Materials

Housing:	Brass, nickel plated (depending on Specific country versions)
Impeller:	Plastic
Impeller shaft:	Bronze
Annular magnets:	Ceramic permanent magnets
Sealing plate:	Plastic
Gears and drives:	Plastic
Cowl:	Plastic
Bearing jewels:	Sapphire
Pressure plate:	Steel

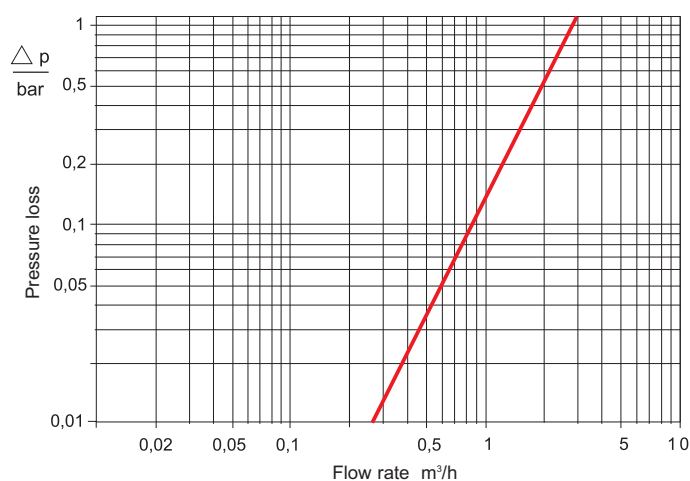
Typical measurement error curve



Dimensions and weights

Nominal size	QN	1.5	1+1.5	1.5	1.5	1.5	2.5
Overall length	mm	80	110	115	115	130	130
Meter fitting thread	inches	G 3/4	G 3/4	G 3/4	G 7/8 x G 3/4	G 3/4	G 1
Pipe connection thread	inches	R 1/2	R 1/2	R 1/2	R 1/2	R 1/2	R 3/4
Dimension	a	mm	70	70	70	70	70
	b	mm	80	110	115	115	130
	c	mm	159	189	194	212	227
	d	mm	60	60	60	60	60
	e	mm	17.5	17.5	17.5	17.5	17.5
Weight	kg	0.41	0.45	0.47	0.47	0.48	0.5

Typical pressure loss curve



Accessories

Description	Dimensions	Order Ref. No.
Angle valve	1/2"	03150089
	3/4"	03150090
Elbow fitting (fixed)	1/2"	03008130
	3/4"	03008132
Elbow fitting (adjustable)	1/2"	03008208
	3/4"	03008131
Threaded fitting for angle valve	3/4" x 3/8" IG	03008815
Connecting hose	300 mm	00318759
	400 mm	00318760
	500 mm	00318761

Ordering instructions

The meter is defined by a 12 character variant configurator. The 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 1, 2, 4 and 7 - 9 are already filled in. All other boxes are to be filled in with the appropriate code for the required features. Please also comply with national regulations (Specific country versions, Box 12)

The **standard variants** with their Order Ref. Nos. are listed following the summary below. This allows them to be ordered direct.

Feature	Feature value	Code	1	2	3	4	5	6	7	8	9	10	11	12
	Ordering-Code / Order-ref.Nr.	►	R	S		E			V	E	U			
Meter type	Single jet meter	RS												
Nominal size	Qn 1	1												
	Qn 1.5	↓ B												
	Qn 2.5	↓ C												
Approval	EU	E E E												
Medium-Temperature	Cold water 30°C	K K K												
	Hot water 90°C	W W W												
Overall length / connection	80mm R1/2" (G 3/4")	A												
	110mm R 1/2" (G 3/4")	B B												
	115mm R 1/2" (G 3/4")	F												
	115mm R 1/2" (G 7/8" x 3/4")	G												
	130mm R 1/2" (G 3/4")	C												
	130mm R 3/4" (G 1")	D												
Housing	Brass, nickel plated	V V V												
Logo/Labeling	Europe Standard	EU EU EU												
Metrol. Class	EAH	1 1 1												
/ Calibration	EBH	2 2 2												
Options	No option	X X X												
	Protective cover	Y Y Y												
	M-Bus Module Residia M	M M M												
	M-Bus Module + Protective cover	N N N												
	Radio Module Base R	R R R												
	Radio Module + Protective cover	S S S												
	Pulse Module Residia-P	D D D												
	Pulse Module + Protective cover	E E E												
Specific Country Version	Europe Standard	E E E												
	Spain	S S S												

Example:
Residia-JET QN 1,5; EU-approval; for cold water overall length 110 mm; R 1/2"; housing brass, nickel plated; labelling acc. to EU standard; metrol. class B; no option Europe standard version

Ordering-Code / Order-ref. Nr.:

R	S	B	E	K	B	V	E	U	2	X	E
---	---	---	---	---	---	---	---	---	---	---	---

Order Ref. Numbers for standard variants with nickel plated housing

Model designation	Temperature stage	Overall length / Connection	Order Ref. No.
Residia-JET QN 1,5	30° C	110 mm R 1/2" (G 3/4")	88 12 53 01
Residia-JET QN 1,5	90° C	110 mm R 1/2" (G 3/4")	88 12 53 11
Residia-JET QN 1,5 with base-r	30° C	110 mm R 1/2" (G 3/4")	88 12 53 03
Residia-JET Qn 1,5 with base-r	90° C	110 mm R 1/2" (G 3/4")	88 12 53 13



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

Residia-Jet