

residia **JET**

Single jet water meter with
modular register
and communication module option



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

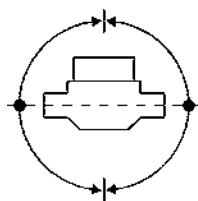
Meter head can be aligned for the best readout position

Option: Protective cover

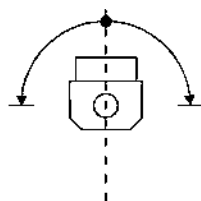
Meter fitted with a push on cowl and hinged plastic protective cover, dark blue



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

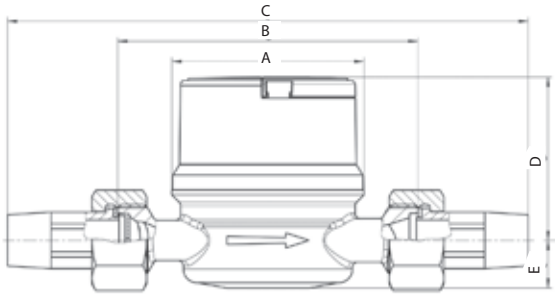
| | | | | | |
|---|-----------|---------|--------|-----|-----|
| Rated flow rate | Q_n | m^3/h | 1 | 1.5 | 2.5 |
| Maximum flow rate | Q_{max} | m^3/h | 2 | 3 | 5 |
| Transitional flow rate | Q_t | l/h | 80 | 120 | 200 |
| Minimum flow rate: | | | | | |
| horizontal installation; register upwards | Q_{min} | 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 |

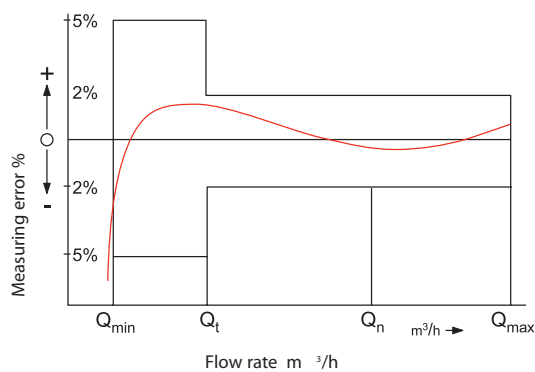
Dimensional drawing



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 |

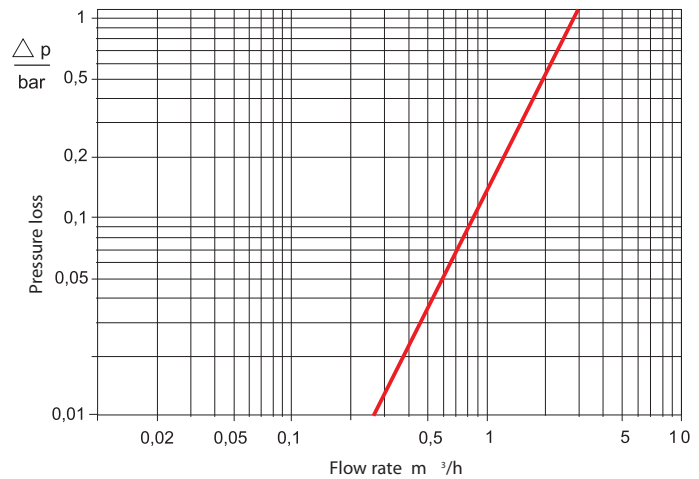
Typical measurement error curve



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 | 209 | 227 |
| | d | mm | 60 | 60 | 60 | 60 | 60 | 60 |
| | e | mm | 17.5 | 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 code is a talking code, easy to fill in.

There are 4 standards codes:

1st - Caldo DN15 / Warm DN15

2nd - Freddo DN15 / Cold DN15

3th - Caldo DN20 / Warm DN20

4th - Freddo DN20 / Cold DN20

For non standards codes please contact us.



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