

ELECTRONIC HOT WATER METER SINGLE JET MID R160 ELECTO SJ

Electronic hot water meter single jet ELECTO SJ MID R160 with rotating dial for water distribution.
Horizontal or vertical position without straight length upstream and downstream needed (U0/D0).
Built-in Wireless M-Bus , OMS.



maddalena



Size : DN15 to DN20
Connection : Male BSP
Min Temperature : +30°C
Max Temperature : +90°C
Max Pressure : 16 Bars
Specifications : Single jet
Rotating dial
Electronic dial
High protection against external magnetic fields

Materials : Brass body CW617N-4MS according to EN 12165

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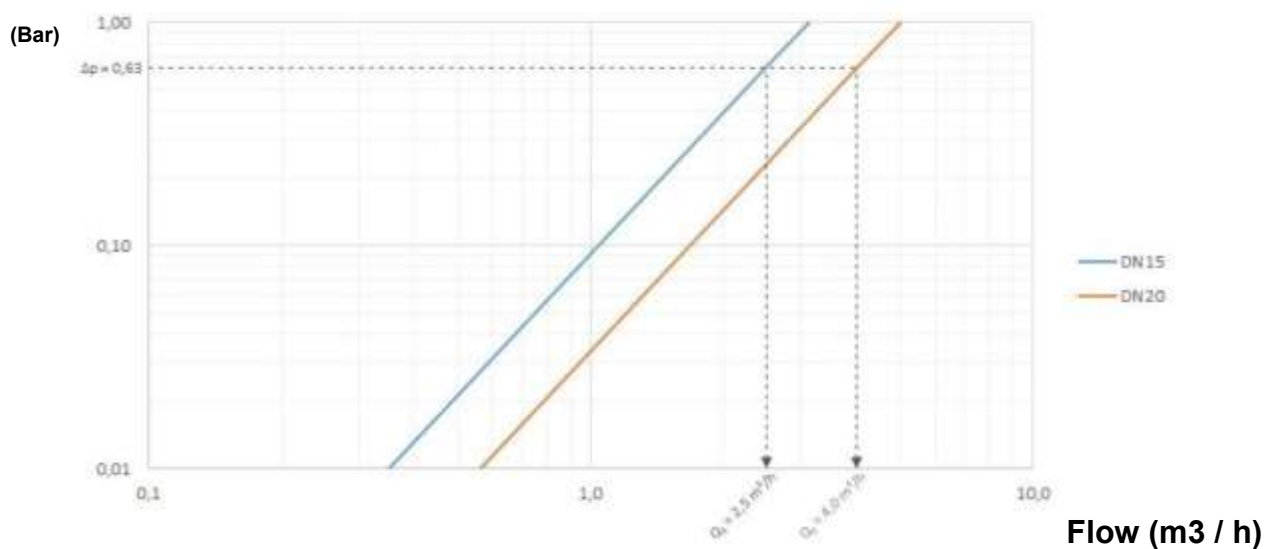
SPECIFICATIONS :

- Single jet type
- **MID R160** for horizontal position and horizontal dial (respect the flow direction indicated by the arrow)
- **MID R63** for vertical position or horizontal position with vertical dial (respect the flow direction indicated by the arrow)
- Electronic rotating dial
- IP68 protection
- Long time lithium battery up to 10 years with factory settings
- Fault detection : fraud, loss, overconsumption, reverse flow, blocked meter and reversed meter
- Horizontal position without straight length needed (U0D0)
- 4MS brass body

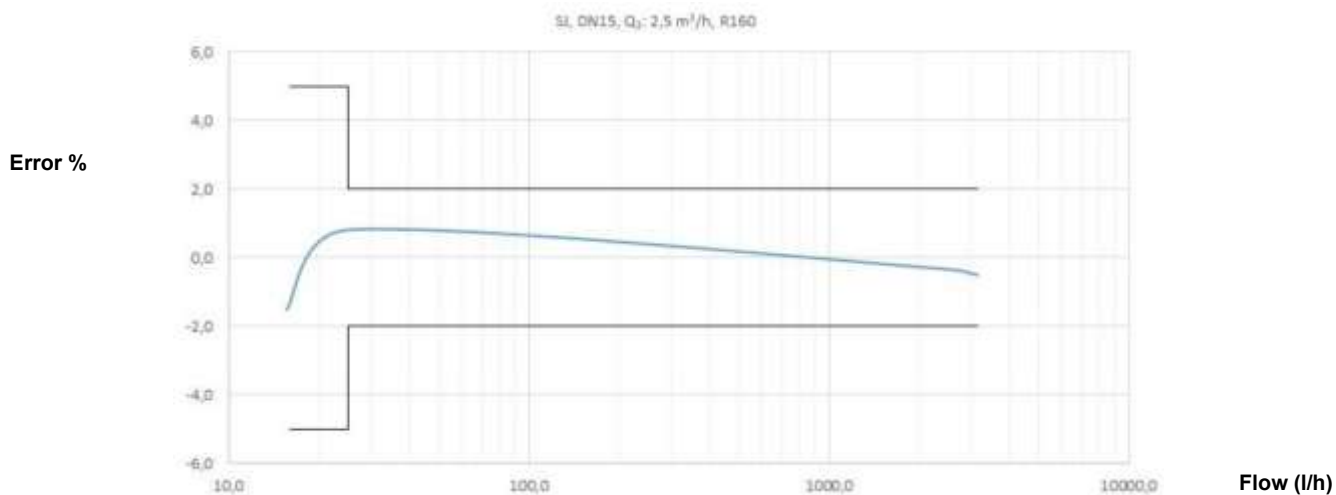
USE :

- Water distribution
- Min and max temperature Ts : +30°C to +90°C
- Max Pressure Ps : 16 bars

HEAD LOSS GRAPH :



TYPICAL ERROR CURVE :



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RANGE :

- Electronic single jet ELECTO SJ hot water meter MID R160 Wireless M-Bus **Ref.2709** DN15 to DN20

ACCESSORIES :



- USB receiver with programming key **Ref.2749007 VSB 868 MHz**



- RADIO transceiver UNICO with external antenna (USB or Bluetooth connection) **Ref.2749024B**



- RADIO ARROW MOBILE software
Ref.2749014



- Free nut water meter union with hole for filling on nut – Male BSP
 - DN15 F3/4"- M1/2" **Ref. 9811054**
 - DN15 F3/4"- M3/4" **Ref. 9811094**
 - DN20 F1" – M3/4" **Ref. 9811065**



- Plastic antifraud seal
 - DN15 **Ref. 9811040**
 - DN20 **Ref. 9811041**



- Nylon + 30% glass fibers pipe Male BSP (waiting for water meter)
 - DN15 length 110 **Ref. 9811053**
 - DN20 length 130 **Ref. 9811055**



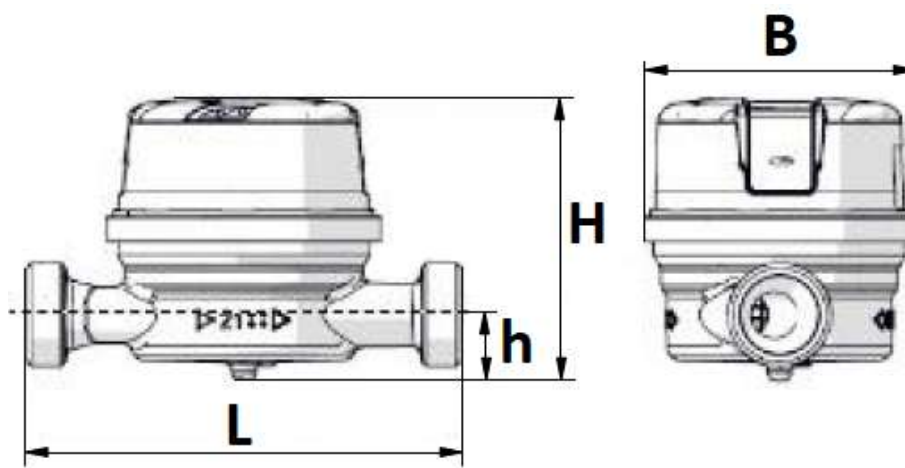
- Brass pipe male BSP threaded
 - For water meter DN15 length 110 **Ref. 9811045**



- Brass water meter stand with fix and sliding fitting DN15 **Ref. 9851000**

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SIZE (in mm) :



Bore	15	20
DN	3/4"	1"
L	110	130
Ø B	70	
H	72	
H	11.7	16.7
Weight (in Kg)	0.39	0.45
Ref.	2709015	2709020

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TECHNICAL FEATURES :

Bore	15	20
Max flow Q4 max (m3/h)	3.13	5
Nominal flow rate Q3 (m3/h)	2.5	4
Min flow rate MID R160 Q1 with $\pm 5\%$ error (l/h)	15.6	25
Min flow rate MID R63 Q1 with $\pm 5\%$ error (l/h)	39.7	63
Transitional flow rate Q2 MID R160 with $\pm 2\%$ error (L/h)	25	40
Transitional flow rate Q2 MID R63 with $\pm 2\%$ error (L/h)	63.5	102
Starting flow rate (l/h)	4.5	8
Head loss class (ΔP @ Q3)	ΔP 63	
Min reading (L)	1	
Max reading (m3)	99.999	
Environmental class	0	
Mechanical class	M1	
Electromagnetic class	E2	
Accuracy class	2	
Battery	Lithium battery 3.6 VDC	

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RADIO TECHNICAL FEATURES :

Specifications	Description
Standard	Wireless M-Bus EN13757 OMS
Modes	T1 (Défaut), C1
Operating frequency range	868.0-868.6 / 868.7 – 869.2 MHZ
Radiated power	14 dBm max
Antenna gain	1 dB
Range	Up to 500 meters in open air
Device class	Radio class 1
Certifications / Approvals	CE in compliance with European standards
	RED 2014/53/EU, RoHS2 (EU) 2017/2012
Data sent	Meter serial number, total volume, instant flow, date, alarms
Configuration	By radio with Android application
Data transmission frequency (default)	Every 90s from Monday to Friday from 8h00 to 18h00
Encryption	AES mode 5, not active
Alarms (default)	Magnetic tampering Suspected leak (consumption of at least 1 litre every 15 minutes for 48 hours) Flow rate limit exceeded (disabled) Backflow (reverse flow for more than 100 litres) Meter blocked (no consumption for at least 30 days) Reversed meter (reverse flow lasts for more than 10 days) Note: The limits can be modified using the settings kit

Water meter with factory setting ready to use

For maintenance, use UNICO transceiver (2749024B) with application Android Maddalena ELECTO SJ available on the Playstore

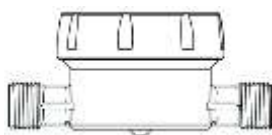
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STANDARDS :

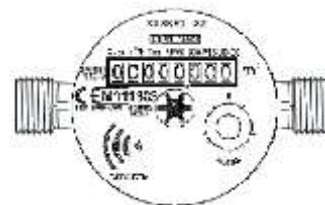
- Manufacturer certified ISO 9001 : 2015 and ISO 14001 :2015
- DIRECTIVE 2014/68/EU : Products excluded from directive (article 1, § 2b)
- Water Meters according to directive **2014/32/EU MID (annex MI001)**
- Designing according to **ISO 4064**
- French water agreement **A.C.S. N° 25 ACC LY 180**
- Male BSP cylindrical threading according to ISO 228-1

INSTALLATION POSITIONS :

HORIZONTAL :



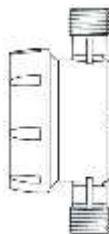
Class MID R=160



Class MID R=63
(Vertical dial assimilated to vertical position)

VERTICAL* :

*** : In vertical position, the metering precision of the meter is going to be slightly altered, and the pipe should always be full of water.**



Class MID R=63

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.
The customer must check the right choice of the products with the real service conditions.