

Residential Use

CD ONE TRP MID WATER METER



Single jet sealed register water meters

CDTRP MID is the latest range of single jet sealed register water meters by Maddalena designed to meet the strict requirements of Directive 2004/22/EC on measuring instruments and of European Standard EN 14154.

CDTRP MID combines high performances at low flow rates and maximum resistance to high flow rates and pressure.

CDTRP MID may be equipped with pulse emitters of the latest generation and with radio modules for remote reading.

CDTRP MID is guaranteed by Maddalena: manufacturer of high quality measuring instruments for the past century.

CD ONE TRP MID WATER METER

CD TRP MID is a single jet sealed register water meter. The register mechanism is housed in a dry compartment meaning that it does not come into contact with the flowing water. As a result it remains perfectly clear ensuring reading with scaling water or where sand particles or small debris may be suspended in the water.

CD TRP MID water meters are certified in accordance with Directive 2004/22/EC, Annex MI-001, and have undergone conformity assessment procedure B + D. The **maximum measuring range Q3/Q1 (R) certified is 200** which allows to obtain water meters with lower R values (160, 125, 100. etc.).

CD TRP MID water meters are available in a pre-equipped version for the future installation of a **bi-directional static pulse emitter**. **The pulse emitter can be fitted maintaining the meter characteristics and without replacing the mineral glass lens.**

CD TRP MID water meters are also certified for use with potable water in accordance with Italian and international regulations.

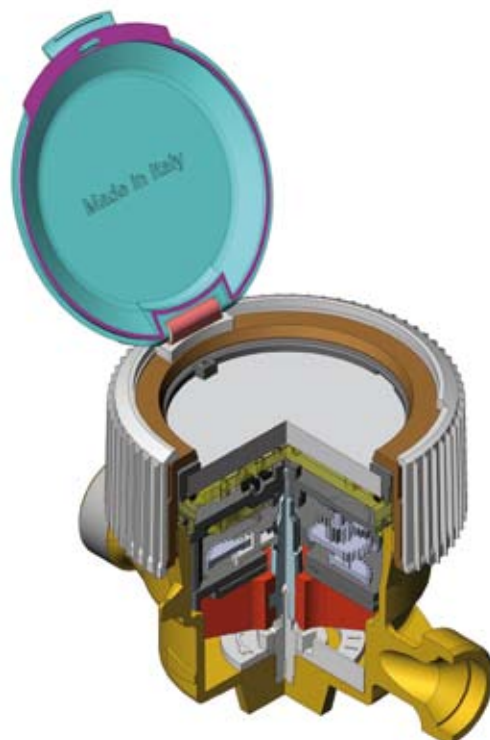
Technical specifications



- Tempered glass lens of adequate thickness
- The register can be customized with a **bar code** representing the water meter serial number
- Hot forged brass body and closing ring
- Stainless steel 18/8 numbered drums' shaft
- Inlet strainer with wide straining area
- Internal and external regulator device (sealable)
- Internal components made of anhygroscopic, anti-scaling and wear resistant plastic materials
- Nominal working pressure: 16 bar
- Installation: horizontal or vertical installation

Upstream or downstream straight lengths are not required

- Maximum water temperature: 50° C
- **Cubic metre fractions and MID inscriptions are in the sealed register which ensures reading in any operating conditions**
- Hydraulic tests are carried out at three flow rates (Q1, Q2, Q3) on 100% of the production. Our testing benches comply with standards ISO 4064/3 and ISO 4185 (EN 14154/3) and are approved by a European notified body
- Non-return valve fitted into the coupling available upon request



HYDRAULIC PERFORMANCES

Diameter	mm	15	20	25
	inches	½	¾	1
Module B no.	TCM 142/08-4627			
Module D no.	0119-SJ-A010-08			
Metrological class MID	R (Q3 / Q1) ≤ 200 H - ≤ 100 V			
Performances in accordance with Directive 2004/22/EC				
Q ₃	m³/h	2.5	4.0	6.3
Q ₄	m³/h	3.3	5.0	7.9
R160				
Q ₁	l/h	15.6	25	N.A.
Q ₂	l/h	25	40	N.A.
R100				
Q ₁	l/h	25	40	63
Q ₂	l/h	40	64	100.8

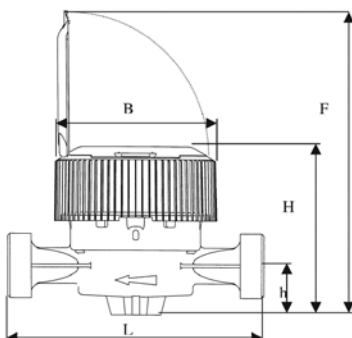
Other values of R available upon request

TECHNICAL DATA

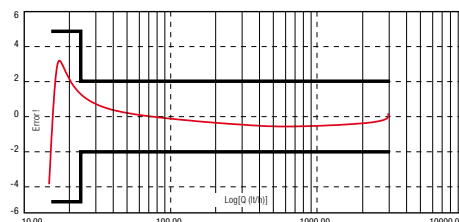
Maximum permissible error between Q ₁ and Q ₂ (excluded)	+/- 5%			
Maximum permissible error between Q ₂ (included) and Q ₄	+/- 2% with water temperature ≤ 30° C +/- 3% with water temperature ≤ 50° C			
Temperature class	T30 and T50			
Flow profile sensitivity classes	U0 - D0 (upstream or downstream straight lengths not required)			
Starting flow rate	l/h	4-5	7-9	16-18
Pressure loss class (ΔP @ Q ₃)	bar	Δ P 63		
Nominal pressure	bar	16	16	16
Maximum reading	m³	100,000	100,000	100,000
Minimum reading	l	0.05	0.05	0.05
Turbine revolutions per litre		29.76	22.83	12.53
Weight	kg	0.75	0.92	1.25

DIMENSIONS

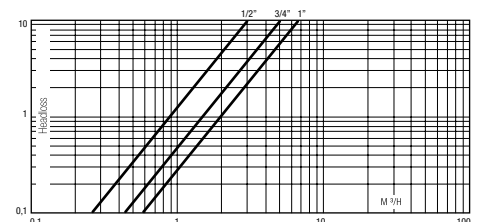
Length	mm	110-115	130	160
Length with couplings	mm	190-195	228	260
H	mm	92	92	92
h	mm	25.51	25.51	25.51
B	mm	86	86	86
F	mm	158	158	158



Typical error curve



Headloss diagram



ACCESSORIES



SINGLE REED SWITCH PULSE EMITTER

Suitable for industrial batching.



QUADRAPLUS PULSE EMITTER

Static bi-directional pulse emitter, equipped with false pulse detection device, battery-powered.



ARROW RADIO MODULE

In combination with Quadraplus static pulse emitter it enables the remote reading of water meters.



NON-RETURN VALVE

Fitted into the water meter coupling it prevents flow return that may damage the water meter.



COUPLING KIT

It includes two nuts, two tail pieces and two gaskets (couplings with built-in non-return valve are available on DN 15 water meters).



SEALS

Designed to secure the water meter to the pipe.

For more information on available accessories please refer to the relevant data sheet.

 **maddalena®**
www.maddalena.it



MADDALENA spa
Via G.B. Maddalena 2/4
33040 Povoletto (Ud)
Tel. +39 0432 634811
Fax +39 0432 679820
info@maddalena.it