

MTWD-M-CC-ST

Multi-jet dry dial meter for hot water with flood-proof (IP68) hermetically sealed glass/copper register in a standpipe design

The current state of development of the MTWD-M-CC-ST guarantees the most precise measurement results, minimal bearing load and a long service life.

The MTWD-M-CC-ST is ideally suited to measuring tasks at temperatures up to 90 °C and fits perfectly into all installation locations provided for standpipe meters. By using special materials, outstanding measurement readings can be combined with a high maximum temperature. The register of the ST variants also works in horizontal position.

The meter is equipped with an 8-digit glass/copper register (IP68) and a modulator disc. This enables electronic, non-reactive scanning and is the basis for remote reading of meter data via radio with LoRaWAN® or wM-Bus (according to OMS). A combined M-Bus/pulse module is also possible.



Performance characteristics at a glance

- Multi-jet dry dial meter with shielded magnetic coupling
- Water meter for standpipe installation
- Equipped with glass/copper register (IP68) as standard
- Brass body according to Federal Environment Office (UBA) list
- Register rotatable 355°
- Operating pressure MAP 16
- Approved in accordance with MID

Applications

- For the consumption measurement of hot and clean drinking water or service water up to 90 °C

AMR options

- As standard with communication interface for EDC modules (Electronic Data Capture):
 - EDC LPWAN radio module (868 MHz) for LoRaWAN®
 - EDC wireless M-Bus radio module according to OMS standard (868 MHz), EN 13757-4
 - EDC- combined M-Bus and pulse module

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Technical data						
Permanent Flowrate	Q_3	m^3/h	4	6.3	10	16
Comparable to permanent flowrate (EEC)	Q_n	m^3/h	2.5	3.5	6	10
Attainable measuring range	Q_3/Q_1	R	R80H	R80H	R80H	R80H
Standard measuring range ¹	Q_3/Q_1	R	R80H	R80H	R80H	R80H
Comparable to metrological class (EEC)	Class	-	B-H	B-H	B-H	B-H
Overload Flowrate	Q_4	m^3/h	5	7.88	12.5	20
Transitional Flowrate ²	Q_2	l/h	80	126	200	320
Minimum flowrate ²	Q_1	l/h	50	79	125	200
Start-up flow rate	-	l/h	<10	<18	<18	<40
Display range	min.	l	0.02	0.02	0.02	0.02
	max.	m^3	99.999.999	99.999.999	99.999.999	99.999.999
Temperature range	-	$^{\circ}C$	0.1 - 90	0.1 - 90	0.1 - 90	0.1 - 90
Operating pressure	MAP	bar	0.3 - 16	0.3 - 16	0.3 - 16	0.3 - 16
Pulse value	-	l/pulse	1	1	1	1
Pressure loss class at Q_3	Δp	bar	$\Delta 0.63$	$\Delta 0.63$	$\Delta 0.63$	$\Delta 0.63$
Mechanical environmental condition	-	-	M2	M2	M2	M2
Climatic condition ³	-	$^{\circ}C$	5 - 55	5 - 55	5 - 55	5 - 55
Flow profile sensitivity	-	-	U0/D0	U0/D0	U0/D0	U0/D0

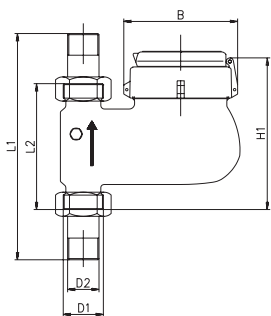
Dimensions and weights:						
Nominal diameter	DN	mm	20	25	25	40
		inch	3/4"	1"	1"	1 1/2"
Overall length without connectors	L2	mm	105	150	150	150/200
Overall length with connectors approx.	L1	mm	201	268	268	278/328
Thread meter G x B	D1	inch	1"	1 1/4"	1 1/4"	2"
Thread connector R x	D2	inch	3/4"	1"	1"	1 1/2"
Width approx.	B	mm	95	95	95	110
Height approx.	H1	mm	140	160	160	165
Weight approx.	-	kg	1.7	2.1	2.1	4.0/4.9

¹Other measuring ranges (R) on request

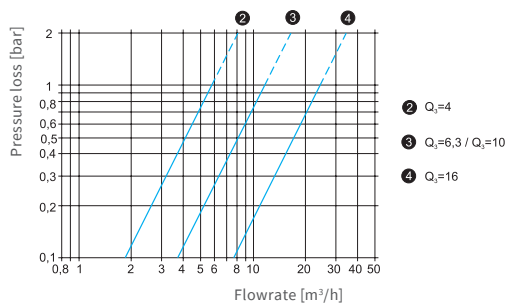
²The data refer to the standard measuring range

³Condensation possible

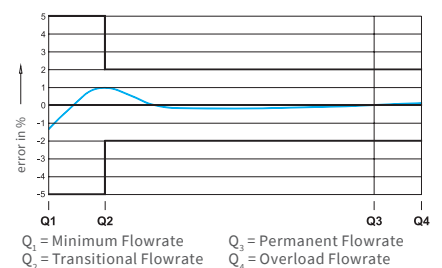
Attention: Attention: not all versions are available in all markets



Dimensions



Typical pressure loss curve



Typical error curve

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