

MTKD-M-ST

Multi-jet dry dial meter for cold water in a standpipe design

The MTKD-M-ST water meter is designed for standpipe installation and guarantees an uncomplicated calibration replacement. The register of the ST variants also works in horizontal position.

The meter is equipped with an 8-digit dry dial meter register 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. 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
- Register cap made of UV-resistant polymer plastic
- Available with glass/copper register (IP68)
- Brass body according to UBA (Federal Environment Office) list
- Register rotatable 355°
- Operating pressure MAP 16
- Approved in accordance with MID

Applications

- For the consumption measurement of cold and clean drinking water or service water up to 50 °C

AMR options

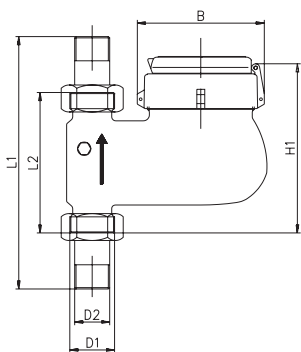
- As standard with communication interface for EDC modules (Electronic Data Capture):
 - EDC LPWAN radio module (868 MHz) for LoRaWAN®
 - EDC wireless M-Bus radio module (868 MHz)
 - EDC- combined M-Bus and pulse module

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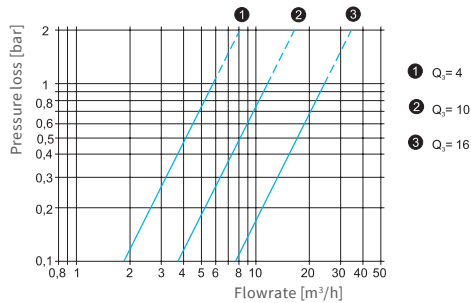
Technical data						
Permanent Flowrate	Q_3	m^3/h	4	10	16	16
Attainable measuring range	Q_3/Q_1	R	160H	160H	160H	160H
Standard measuring range ¹	Q_3/Q_1	R	R80H	R80H	R80H	R80H
Overload Flowrate	Q_4	m^3/h	5	12.5	20	20
Transitional Flowrate ²	Q_2	l/h	80H	200H	320H	320H
Minimum flowrate ²	Q_1	l/h	50H	125H	200H	200H
Start-up flow rate	-	l/h	<10	<18	<40	<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 - 50	0.1 - 50	0.1 - 50	0.1 - 50
Operating pressure	MAP	bar	16	16	16	16
Pulse value		$l/pulse$	1	1	1	1
Pressure loss class at Q_3	Δp	-	$\Delta 0.63$	$\Delta 0.63$	$\Delta 0.63$	$\Delta 0.63$
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	40	40
		inch	3/4"	1"	1 1/2"	1 1/2"
Overall length without connectors	L2	mm	105	150	150	200
Overall length with connectors approx.	L1	mm	201	268	278	328
Thread meter G x B	D1	inch	1"	1 1/4"	2"	2"
Thread connector R x	D2	inch	3/4"	1"	1 1/2"	1 1/2"
Width approx.	B	mm	95	95	110	110
Height approx.	H1	mm	140	160	165	165
Weight approx.	-	kg	1.7	2.1	4.0	4.9

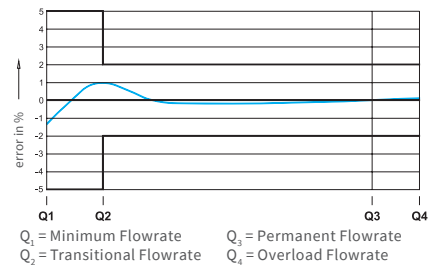
¹ Other measuring ranges (R) on request
² The data refer to the standard measuring range
³ Condensation possible
 Attention: Attention: not all versions are available in all markets



Dimensions



Typical pressure loss curve



Typical error curve

ZENNER International GmbH & Co. KG

Römerstadt 6 | 66121 Saarbrücken | Germany

Phone +49 681 99 676-30
 Fax +49 681 99 676-3100

e-mail info@zenner.com
 internet www.zenner.com