

MTKD-S / MTKD-S1

Multi-jet dry dial meter for cold water

The current state of development of the MTKD guarantees the most precise measurement results, minimal bearing load and a long service life. The meter is equipped with an 8-digit dry dial 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 EDC M-Bus / pulse module is also possible.

The MTKD-S/S1 -N is equipped with an 8-digit register and 1 l/pulse as standard or is available with a 7-digit register and 10 l/pulse. Alternatively, the reed-switch interface also enables remote reading of the meter data via PDC via radio with LoRaWAN® or wM-Bus. The housing is unpainted and corresponds to the German drinking water guidelines.



Performance characteristics at a glance

- Dry dial multi-jet register with shielded magnetic coupling
- For horizontal and vertical installation
- All materials, which are used in the drinking water section, comply with the required standards, guidelines and the current German drinking water approval (other country-specific drinking water approvals on request)
- Register cap made of high-quality UV-resistant polymer plastic (-N / -M)
- Register with protective steel foil against manipulation (-N)
- Optionally available with copper-glass counter (IP 68) (-M-CC)
- Brass meter housing according to UBA (Federal Environment Office) list

Applications

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

AMR options

- (-N) can be retrofitted with PDC module (PulseDataCapture):
 - PDC- LPWAN-radio module (868 MHz) for LoRaWAN®
 - PDC- wireless M-Bus radio module (868 MHz)
- (-M / -M-CC) retrofittable with EDC module (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
- (-N) can be retrofitted with pulser:
 - Standard pulse valve 1 l/pulse
 - Optional 10 L/pulse

Technical data

Permanent Flowrate	Q_3	m ³ /h	1,6	2,5	2,5	4
Attainable measuring range	Q_3/Q_1	R	100H	160H/40V	160H/40V	160H/40V
Standard measuring range ¹	Q_3/Q_1	R	R80H	R80H	R80H	R80H
Overload Flowrate	Q_4	m ³ /h	2,0	3,13	3,13	5,0
Transitional Flowrate ²	Q_2	l/h	32H	50H	50H	80H
Minimal flowrate ²	Q_1	l/h	20H	31H	31H	50H
Start-up flow rate	-	l/h	<8	<8	<8	<10
Display range	min	l	0,02	0,02	0,02	0,02
	max	m ³	R8 99,999.999 R7 99,999.99	R8 99,999.999 R7 99,999.99	R8 99,999.999 R7 99,999.99	R8 99,999.999 R7 99,999.99
Temperature range	-	°C	0,1 - 50	0,1 - 50	0,1 - 50	0,1 - 50
Operating pressure, max.	MAP	bar	16	16	16	16
Pulse value		l/imp.	1/10	1/10	1/10	1/10
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 environment ³	-	°C	5 - 55	5 - 55	5 - 55	5 - 55
Flow profile sensitivity	-	-	U0/D0	U0/D0	U0/D0	U0/D0

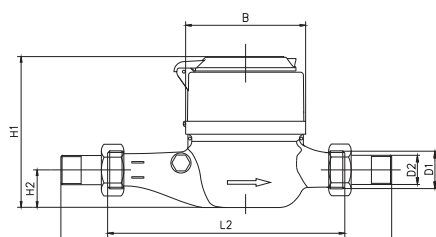
Dimensions and weights:

Nominal diameter	DN	mm	15	15	20	20
		inch	1/2"	1/2"	3/4"	3/4"
Overall length without connectors ¹	L2	mm	165/170/190	165/170/190	190	190
Overall length with connectors approx.	L1	mm	245/250/270	245/250/270	286	286
Thread meter G x B	D1	inch	3/4"	3/4"	1"	1"
Thread Connector R x	D2	inch	1/2"	1/2"	3/4"	3/4"
Width approx.	B	mm	84	84	84	84
Height approx.	H1	mm	107	107	111	111
	H2	mm	24	24	26	26
Weight approx.	-	kg	0,85/0,88/0,95	0,85/0,88/0,95	1,0	1,0

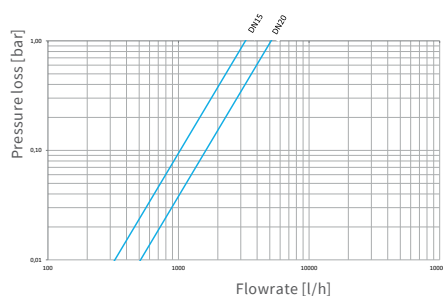
¹ Other measuring ranges (R) and overall lengths on request

² Values refer to standard measuring range

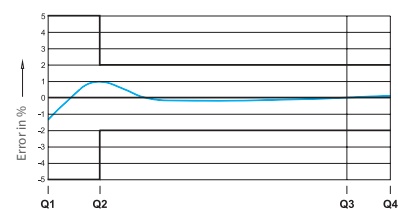
³ Condensation possible



Dimensions



Pressure loss curve



Q_1 = Minimum flowrate
 Q_2 = Transitional flowrate
 Q_3 = Permanent flowrate
 Q_4 = Overload flowrate

Typical error curve

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