

MTKD-L

Multi-jet dry dial meter for cold water

The MTKD-L multi-jet meter guarantees a reliable collection of meter data for individual consumption billing and is perfectly equipped for the future.

The MTKD-L-M (-CC) 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 (according to OMS). A combined M-Bus/pulse module is also possible.

The MTKD-L-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.

The housing of the MTKD-L is made of glass-fibre reinforced polymer plastic approved for drinking water.



MTKD-L-M-CC version

Performance characteristics at a glance

- Multi-jet dry dial meter with protected magnetic coupling
- For horizontal and vertical installation
- Around 50% lighter than a comparable meter with brass housing
- Register cap made of UV-resistant polymer plastic (MTKD-L-N / MTKD-L-M)
- Available with glass/copper register (IP68) (MTKD-L-M-CC)
- Housing made of glass-fibre reinforced polymer plastic
- Register rotatable 355°
- Operating pressure MAP 16
- Approved in accordance with MID

Applications

- For the consumption measurement of cold and unpolluted drinking water or service water up to 30°C

AMR options

- (-M/-CC) 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
- (-N) Can be retrofitted with pulser:
 - Standard pulse value 1 l/pulse
 - Optional 10 l/pulse

MTKD-L

Technical data

Permanent flowrate	Q_3	m ³ /h	2.5	4
Comparable to nominal flowrate (EEC)	Q_n	m ³ /h	1.5	2.5
Attainable measuring range ¹	Q_3/Q_1	R	100H	160H/40V
Comparable to metrological class (EEC)	Class	-	B-H	C-H / A-V
Overload flowrate	Q_4	m ³ /h	3.13	5
Transitional flowrate ²	Q_2	l/h	40H	40H / 160V
Minimum flowrate ²	Q_1	l/h	25H	25H / 100V
Start-up flow rate	-	l/h	<10	<10
Display range	min.	l	0.02	0.02
	max.	m ³	R8 99,999.999 R7 99,999.99	R8 99,999.999 R7 99,999.99
Temperature range	-	°C	0.1 - 30	0.1 - 30
Operating pressure	MAP	bar	0.3 - 16	0.3 - 16
Pulse value	-	l/pulse	1/10	1/10
Pressure loss class at Q_3	Δp	bar	$\Delta 0.63$	$\Delta 0.63$
Mechanical environmental condition	-	-	M2	M2
Climatic condition ³	-	°C	5 - 55	5 - 55
Flow profile sensitivity	-	-	U0/D0	U0/D0

Dimensions and weights:

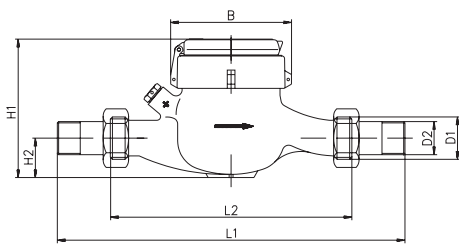
Nominal diameter	DN	mm	15	20
		inch	½"	¾"
Overall length without connectors	L2	mm	165/170	190
Overall length with connectors approx.	L1	mm	245/250	286
Thread meter G x B	D1	inch	¾"	1"
Thread connector R x	D2	inch	½"	¾"
Width approx.	B	mm	99	99
Height approx.	H1	mm	120	120
	H2	mm	35	30
Weight approx.	-	kg	0.6	0.6

¹ Other measuring ranges (R) on request

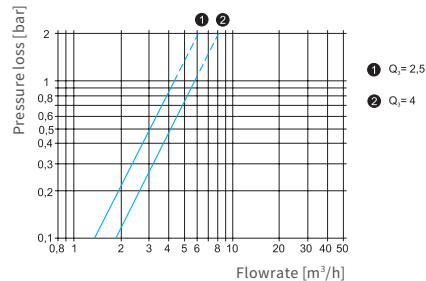
² The data refers to the max. measuring range

³ Condensation possible

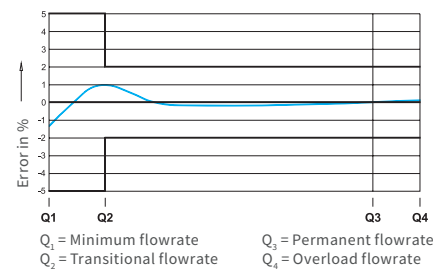
Attention: not all versions are available in all markets



Dimensions



Pressure loss curve



Typical error curve

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

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