

ETKD and ETWD

Single-jet dry-dial meter for cold and hot water



We developed a model with an electronic and non-reactive scannable modulator disc (ETKD-M/ ETWD-M) for smart-metering applications that require counters to have remote readability. The option of electronic scanning for the modulator disc is the basis for the remote reading of counter data, either via wireless radio, M-Bus or a pulser. By retrofitting our EDC module, the water meter is with a few hands a future-proof smart water. The ETKD-N or ETWD-N base models come standard-equipped with a magnet pointer and offer the option of transferring counter data via pulsers.



M-Bus

M-Bus
wireless

LoRaWAN™

sigfox





ETKD-M



ETKD-N

Performance characteristics in overview

- Single-jet dry dial meter
- Model “-M” with 8-digit register and modulator disc (1 l/pulse) for non-reactive scanning for radio (wireless M-Bus, LPWAN), M-Bus or pulse
- Model “-N” with 7-digit register and magnetic pointer offers the possibility of remote readout of the meter data via pulser (10 l/pulse)
- Register cap made of high-quality UV-resistant polymer plastic
- Optional: Hermetically sealed glass/copper register IP68 equipped with register cap as a standard
- Register rotatable 355°
- For horizontal and vertical installation (also for ascending and descending pipes)
- Approved in accordance with MID

Applications

- For the consumption measuring of cold potable water up to 30 °C (ETKD) or hot water up to 90 °C (ETWD)

AMR options

- Model “-N” retrofittable with reed pulser (standard 10 l/pulse, optional 1 l/pulse)
- Model “-M” serially equipped with communication interface for: Electronic Pulser, Wired M-Bus, Radio via Wireless M-Bus and Radio via LPWAN (LoRaWAN™, SIGFOX)

Permanent Flowrate	Q_3	m ³ /h	1.6	2.5	2.5	2.5	4
Comparable to nominal flow (EWG)	Q_n	m ³ /h	1.0	1.5	1.5	1.5	2.5
Attainable measuring range	Q_3/Q_1	R	80H/40V	80H/40V	80H/40V	80H/40V	80H/40V
Standard measuring range ⁽¹⁾	Q_3/Q_1	R	80H/40V	80H/40V	80H/40V	80H/40V	80H/40V
Comparable to metrological class (EWG)	class		B-H/A-V	B-H/A-V	B-H/A-V	B-H/A-V	B-H/A-V
Overload Flowrate	Q_4	m ³ /h	2	3.125	3.125	3.125	5
Minimum Flowrate ⁽²⁾	Q_1	l/h	20H	31H/63V	31H/63V	31H/63V	50H/100V
Start-up flow rate	-	l/h	<10	<10	<10	<10	<14
Display range	min	l	0.02	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	R8 99.999,999 R7 99.999,99
Temperature range	T30 T90	°C	0,1 - 30 30 - 90	0,1 - 30 30 - 90	0,1 - 30 30 - 90	0,1 - 30 30 - 90	0,1 - 30 30 - 90
Operating pressure, max.	MAP	bar	16	16	16	16	16
Pulse value	-	l/pulse	1/10	1/10	1/10	1/10	1/10
Pressure loss at Q_3	Δp	bar	$\Delta 0.63$	$\Delta 0.63$	$\Delta 0.63$	$\Delta 0.63$	$\Delta 0.63$
Mechanical environmental condition	-	-	M1	M1	M1	M1	M1
Climatic condition ⁽³⁾	-	°C	5 - 70	5 - 70	5 - 70	5 - 70	5 - 70
Flow profile sensitivity	-	-	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0

Weight and dimensions:

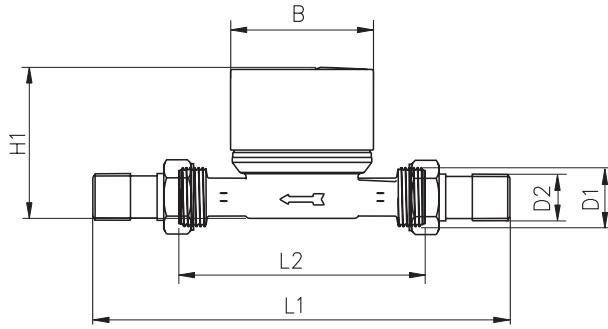
Nominal diameter	DN	mm	15	15	15	20	20
		inch	1/2	1/2	1/2	3/4	3/4
Overall length	L2	mm	110	80	110/115	130	130
Overall length with connectors approx.	L1	mm	190	160	190/195	226	226
Thread meter G x B	D1	inch	3/4	3/4	3/4	1	1
Thread connector	D2	inch	1/2	1/2	1/2	1/2	1/2
Width approx.	B	mm	66	66	66	66	66
Height approx.	H1	mm	77	77	77	80	80
Weight ca.	-	kg	0.43	0.42	0.43/0.44	0.57	0.57

⁽¹⁾ Other measuring ranges (R) on request

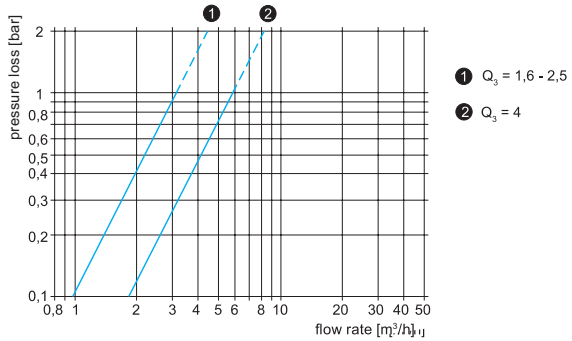
⁽²⁾ The data refer to the standard measuring range

⁽³⁾ Condensation possible

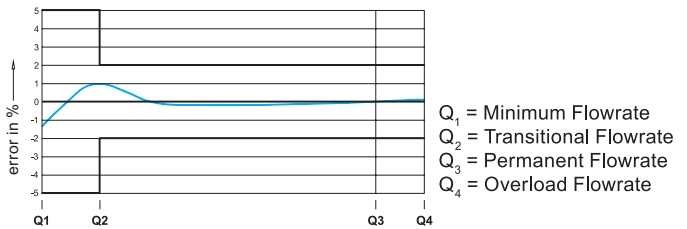
Dimensions
ETKD-L



Typical pressure
loss curve



Typical accuracy
curve



We've got you covered.



We know metering and data collection can be a real technical mine field. That's why we have a team of experts to help you whether it's installation or advice on regulation and best practice services.

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