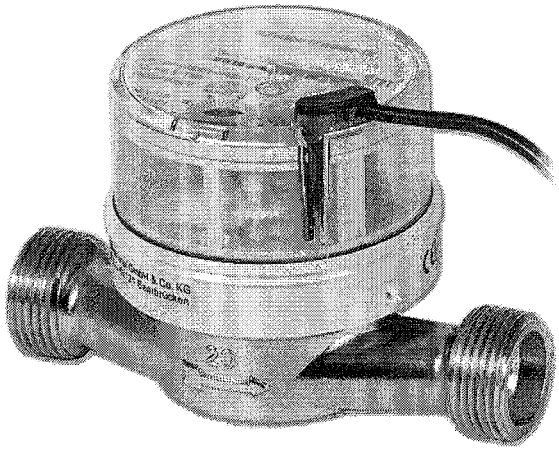
ETKDI / ETWDI

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

The ETKDI / ETWDI is a single-jet meter with a 7- or 8-digit register with protected magnetic coupling. A mechanical pulser is already factory-assembled. The individual advantage of the meter is an exceptionally compact design. With its very small height, the meter easily adapts to any installation situation. The ETKDI / ETWDI guarantees reliable recording of meter data for individual consumption billing.
Alternatively, the reed switch interface enables remote reading of the meter data via PDC via radio with LoRaWAN® or wM-Bus.



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)

Performance characteristics at a glance

- Single jet dry-dial with shielded magnetic coupling
- For horizontal and vertical installation (also for standpipe and downpipe application)
- Register cap made of high-quality UV-resistant polymer plastic
- Brass meter housing 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 unpolluted drinking water or service water up to 50 °C (ETKD)
- For the consumption measurement of hot and unpolluted drinking water or service water up to 90 °C (ETWD)

AMR options

- Can be retrofitted with PDC module (PulseDataCapture):
  - PDC wireless M-Bus radio module (868 MHz)
  - PDC LPWA dio module for LoRaWAN®
- With a factory-assembled mechanical pulser:
  - 10 l/pulse at 7-digit-register

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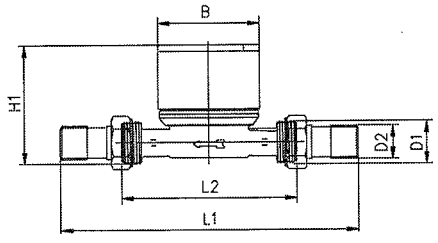
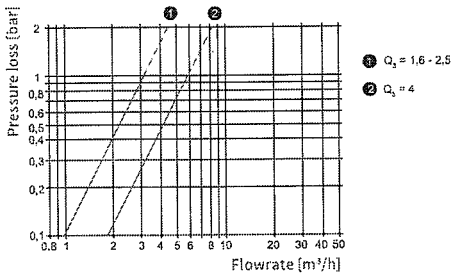
Technical data							
Permanent Flowrate	Q_3	m^3/h	1.6	2.5	2.5	2.5	4
Attainable measuring range	Q_3/Q_1	R	80H/40V	80H/40V	80H/40V	80H/40V	80H/40V
Standard measuring range [1]	Q_3/Q_1	R	80H/40V	80H/40V	80H/40V	80H/40V	80H/40V
Overload Flowrate	Q_4	m^3/h	2.00	3.125	3.125	3.125	5
Transitional Flowrate [2]	Q_2	l/h	32H/64V	50H/100V	50H/100V	50H/100V	80H/160V
Min. Flowrate [2]	Q_1	l/h	20H/40V	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	-	°C	0.1 - 50 0.1 - 90	0.1 - 50 0.1 - 90	0.1 - 50 0.1 - 90	0.1 - 50 0.1 - 90	0.1 - 50 0.1 - 90
Operating pressure	MAP	bar	16	16	16	16	16
Pulse value	-	l/pulse	1/10	1/10	1/10	1/10	1/10
Pressure loss class at Q_3	Δp	bar	Δ0.63	Δ0.63	Δ0.63	Δ0.63	Δ0.63
Mechanical environmental condition	-	-	M1	M1	M1	M1	M1
Climatic ambient conditions [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
Dimensions and weights:							
Nominal diameter	DN	mm	15	15	15	20	20
		inch	1/2" (7/8")[4]	1/2"	1/2" (7/8")[4]	3/4"	3/4"
Overall length	L2	mm	110/115/130	80	110/115/130	130	130
Overall length with connectors approx.	L1	mm	190/195/200	160	190/195/200	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"	3/4"	3/4"
Width approx.	B	mm	66	66	66	66	66
Height approx.	H1	mm	76	76	76	79	79
Weight approx.	-	kg	0.43/0.44/0.46	0.42	0.43/0.44/0.46	0.59	0.59

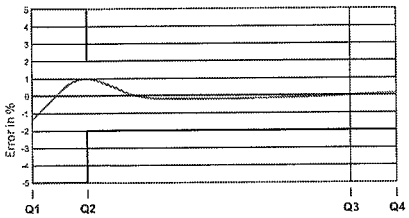
[1] Other measuring ranges (R) on request
[2] The data refers to the standard measuring range
[3] Condensation possible
[4] Thread ⅞" on request
Attention: not all versions are available in all markets



Dimensions



Pressure loss curve



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

Typical error curve