apex piping
CONNECT WITH FLOW

ZENNER

ETKD-L-M-CC R160

Single-jet dry-dial meter for cold water

The ETKD-L R160 is a single-jet meter with a modular 8-digit register with protected magnetic coupling and glass/copper register (IP68).
The individual advantage of the meter is an exceptionally compact design. With its low height, the meter easily adapts to any installation situation.
The meter guarantees reliable recording of meter data for individual consumption billing.
The modulator disc 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.
The housing of the ETKD-L R160 is made of glass-fibre reinforced polymer plastic approved for drinking water. 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
- With 8-digit register and modulator disc (≥1 l/pulse) for electronic, non-reactive scanning, as a basis for remote readout radio (wM-Bus, LPWAN), M-Bus or pulse
- For horizontal and vertical installation (also for ascending and descending pipes)
- Accuracy class R160 (corr. to class C)
- Equipped with glass/copper register (IP68) as standard
- Optionally available with plastic register (IP 64)
- Fitted with protective cap as standard
- 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 50 °C

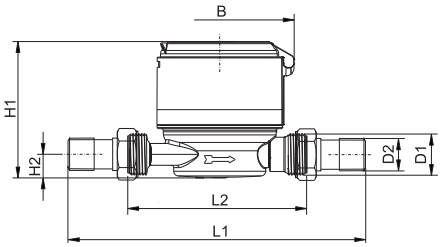
AMR options

- 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

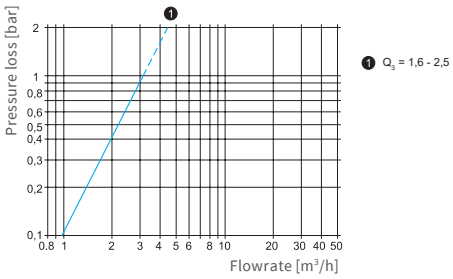
ETKD-L-M-CC R160

Technical data								
Permanent Flowrate	Q_3	m^3/h	1.6	1.6	1.6	2.5	2.5	2.5
Attainable measuring range	Q_3/Q_1	R	125H40V	125H40V	125H40V	200H63V	200H63V	200H63V
Standard measuring range [1]	Q_3/Q_1	R	100H40V	100H40V	100H40V	160H63V	160H63V	160H63V
Overload Flowrate	Q_4	m^3/h	2	2	2	3.125	3.125	3.125
Transitional Flowrate [2]	Q_2	l/h	26H/64V	26H/64V	26H/64V	26H/64V	26H/64V	26H/64V
Min. Flowrate [2]	Q_1	l/h	16H/40V	16H/40V	16H/40V	16H/40V	16H/40V	16H/40V
Start-up flow rate	-	l/h	5	5	5	5	5	5
Display range	min	l	0.02	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	R8 99.999,999 R7 99.999,99
Temperature range	-	°C	0.1 - 50	0.1 - 50	0.1 - 50	0.1 - 50	0.1 - 50	0.1 - 50
Operating pressure	MAP	bar	16	16	16	16	16	16
Pulse value	-	l/pulse	1	1	1	1	1	1
Pressure loss class at Q_3	Δp	bar	0.25	0.25	0.25	0.63	0.63	0.63
Mechanical environmental condition	-	-	M1	M1	M1	M1	M1	M1
Climatic ambient conditions [3]	-	°C	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55
Flow profile sensitivity	-	-	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0
Dimensions and weights:								
Nominal diameter	DN	mm	15	15	15	15	15	15
		inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Overall length	L2	mm	110/115	165/170	190	110/115	165/170	190
Overall length with connectors approx.	L1	mm	205/210	253/258	278	205/210	253/258	278
Thread meter G x B	D1	inch	3/4" (7/8)	3/4"	3/4"	3/4" (7/8)	3/4"	3/4”
Thread connector	D2	inch	1/2"	1/2"	1/2"	1/2"	1/2”	1/2”
Width approx.	B	mm	88	88	88	88	88	88
Height approx.	H1	mm	90.70	90.70	90.70	90.70	90.70	90.70
	H2	mm	18.60	18.60	18.60	18.60	18.60	18.60
Weight without magnetic shielding approx.	-	kg	0.372/0.374	0.380/0.382	0.387	0.372/0.374	0.380/0.382	0.387
Weight with magnetic shielding approx.	-	kg	0.422/0.424	0.430/0.432	0.437	0.422/0.424	0.430/0.432	0.437

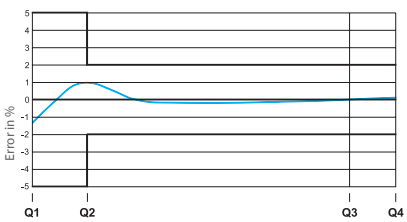
[1] Other measuring ranges (R) on request
[2] Values refer to standard measuring range
[3] Condensation possible



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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