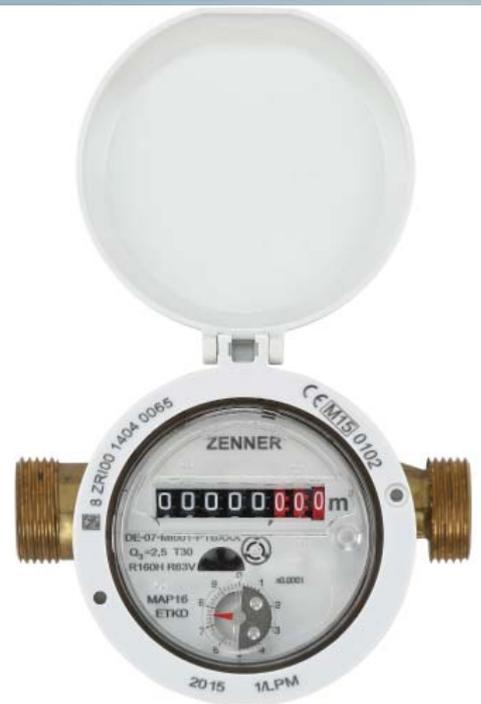


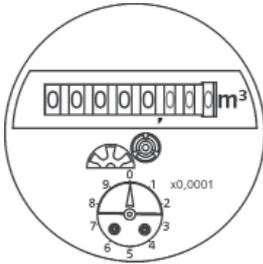
ETKD R160

Single-jet water meter

Highest precision

Equipped for remote reading





ETKD R160

High-precision single-jet meter with dry-dial register

The ETKD R160 represents the best starting values and the highest accuracy and measuring stability with an optimal price / performance ratio. This is ensured by its optimized design:

- Hydraulically optimized body
- Improved bearing of the impeller
- Low-friction magnetic coupling

With a ratio of $Q_3/Q_1=160$ (comparable to metrological class C) for horizontal installation, the ETKD R160 meets the highest standards of reliability and accuracy. In addition, the meter is robust and has a large measuring range. In the version „copper can“, the register is enclosed in a robust copper jacket and, as a result, is optimally protected against condensation, dust and environmental influences.

In this way, the new single-jet ensures reliable reading of meter data for individual consumption billing. Due to a wide range of technical options, the ETKD is best possibly equipped for the future.

The register with modulator disc is the base for data transfer via radio, M-Bus or pulse.

Characteristics in a glance

- Dry dial register with shielded magnetic coupling
- Highest precision
- For cold potable water up to 30°C
- 8-digit-register as a standard
- Register 360° rotatable
- Operating pressure MAP 16
- For horizontal and vertical installation
- Reaction-free pulse detection as a standard
- Retrofittable with pulser-, M-bus- or wireless M-bus-module
- Approved in accordance with MID

Smart Metering Options

Modulator disc

With the modulator disc, the ETKD R160 is prepared for electronic and non-reactive scanning and has the optimum features for reliable and error-free data transfer via radio, M-Bus or pulse. Other features are protection against tampering and detection of the water flow direction.



Radio module EDC



Radio via wireless M-bus

With the addition of an add-on radio module, the ETKD model with modulator disc can be read via radio (wM-Bus as per OMS). A radio module (EDC) transmits the meter data to a radio modem (MinoConnectRadio) and these are relayed via Bluetooth to a PC or hand-held computer with an installed readout-software (e.g. MeterReaderLight).



MinoConnectRadio



M-bus

Using a special add-on M-Bus module (EDC), the ETKD R160 with modulator disc can be integrated into an M-Bus system, in which all counters on a property are connected together and can be read centrally.



Handheld



Pulse-output

The modulator disc provide the option of reading the counter data remotely by an electronic pulser.



IZM multipulse



M-Bus converter

Technical Data ETKD R160

Permanent flow	Q ₃	m³/h	1,6	1,6	2,5	2,5	4	4
Comparable to nominal flow (EWG)	Q _n	m³/h	1	1	1,5	1,5	2,5	2,5
Measuring range	Q ₃ /Q ₁	R	125H/40V	125H/40V	200H/80V	200H/80V	160H/63V	160H/63V
Standard measuring range*	Q ₃ /Q ₁	R	100H/40V	100H/40V	160H/63V	160H/63V	160H/63V	160H/63V
Comparable to metrological class (EWG)	Class		C-H/A-V	C-H/A-V	C-H/A-V	C-H/A-V	C-H/A-V	C-H/A-V
Maximum flow**	Q ₄	m³/h	2	2	3,125	3,125	5	5
Minimum flow**	Q ₁	l/h	16H/40V	16H/40V	16H/40V	16H/40V	25H/63V	25H/63V
Start-up flow-rate	-	l/h	5	5	5	5	7	7
Maximum temperature	-	°C	50	50	50	50	50	50
Operating pressure	MAP	bar	16	16	16	16	16	16
Pressure loss at Q ₃	Δp	bar	Δ25	Δ25	Δ63	Δ63	Δ63	Δ63

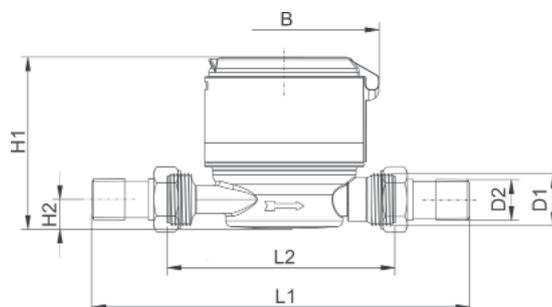
Weight and dimensions:

Nominal diameter	DN	mm	15	15	15	15	20	20
	DN	inch	½	½	½	½	¾	¾
Overall length without connectors	L2	mm	110	165/170	110	165/170	115/130	190
Overall length with connectors approx.	L1	mm	~190	~245/~250	~190	~245/~250	~211/~226	~286
Thread at meter G x B	D1	inch	¾	¾	¾	¾	1	1
Thread at connector G x B	D2	inch	½	½	½	½	¾	¾
Width approx.	B	mm	88	88	88	88	88	88
Height approx.	H1	mm	88	88	88	88	88	88
	H2	mm	15	15	15	15	16,5	16,5
Weight approx.	-	kg	0,55/0,61***	0,70/0,76***	0,55/0,61***	0,70/0,76***	0,68/0,71***	1,29 ***

* Other measuring ranges (R) on request

** Values refer to standard measuring range

*** Copper can (CC)



ZENNER International GmbH & Co. KG

Römerstadt 6

66121 Saarbrücken

Telefon +49 681 99 676 - 30

Telefax +49 681 99 676 - 3100

E-Mail info@zenner.com

Internet www.zenner.com