



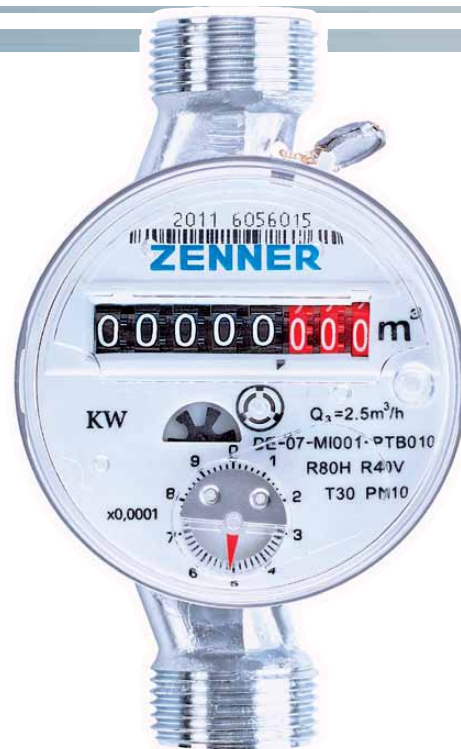
EnergyMetering

ETKD/ETWD

Single-jet dry dial meter

Newly developed counter

Equipped for remote reading



ZENNER
All that counts.

ETKD/ETWD

Single-jet dry dial meter for cold and hot water

The counter of the new ETKD has been conceptually newly thought through and technically refined. The result is a counter with a shielded magnetic coupling which delivers virtually optimally results in terms of precision and measuring stability.

Thanks to a wide range of technical options, the ETKD is optimally equipped for the future.

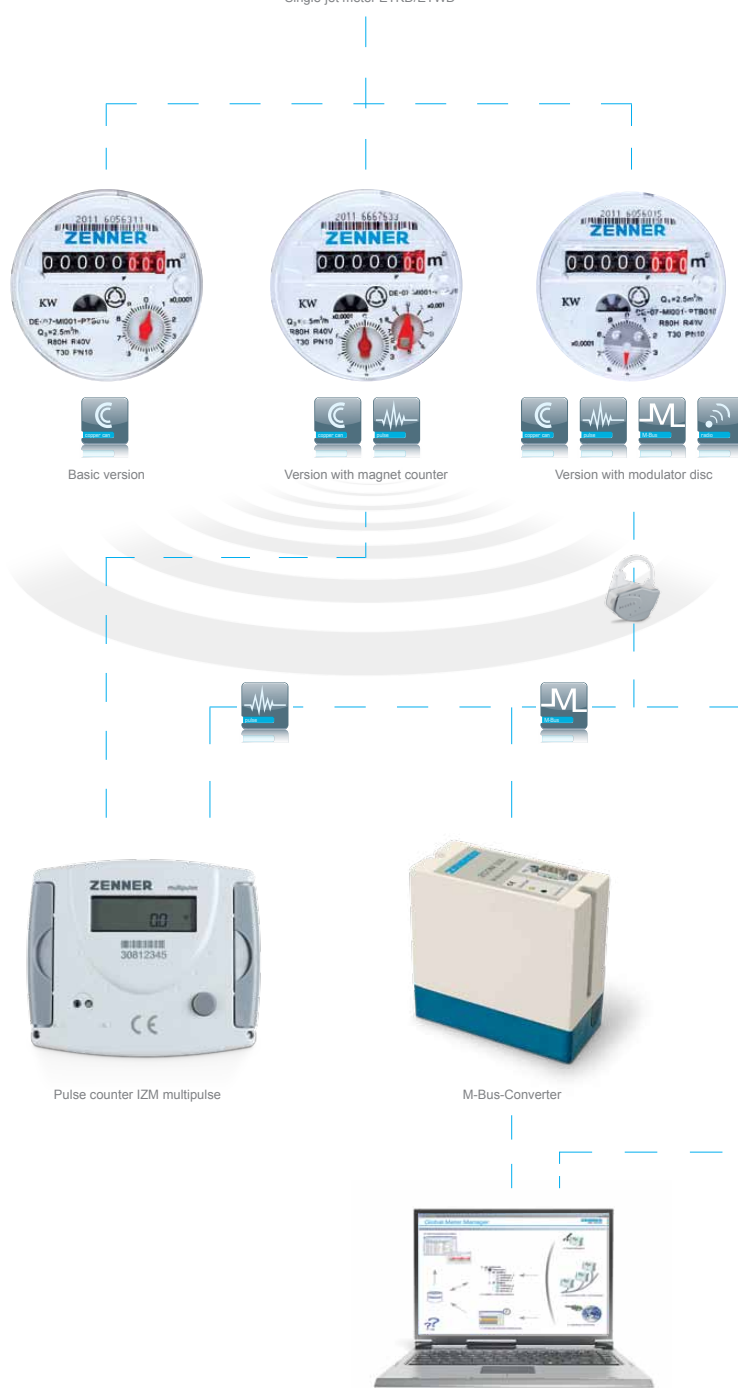
The ETKD makes a technical leap forward in development with its newly developed modulator disc. This makes possible non-reactive, electronic scanning with a variable resolution and is the basis for remote reading via radio, M-Bus or pulse module.

Performance characteristics in overview

- Dry dial counter with shielded magnetic coupling
- Counter equipped with 8 digits as standard
- optionally: non-reactive scanning for radio, M-Bus or pulse
- Counter 355° rotatable
- Operating pressure PN 10
- For horizontal and vertical installation



Single-jet meter ETKD/ETWD



Basic version



Version with magnet counter



Version with modulator disc



Pulse counter IZM multipulse



M-Bus-Converter



Options at a glance

Body and counter



7- or 8-digits counter

The ETKD is available with a 7- or 8-digits counter. The version with 7 digits and a magnetic counter can be scanned by Reed pulser.



Modulator disc

With the modulator disc, the counter of the ETKD 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 water flow direction detection.



"Copper Can" option (IP 68 protection rating)

In this version, the counter is enclosed in a robust copper jacket and, as a result, is optimally protected against condensation, dust and environmental influences.

Smart metering options



Pulse output-ready

Both the ETKD 7-digits model with magnet pointer and the 8-digits model with modulator disc provide the option of reading the counter data remotely.



M-Bus-ready

Using a special add-on M-Bus module, the ETKD 8-digits counter model 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.

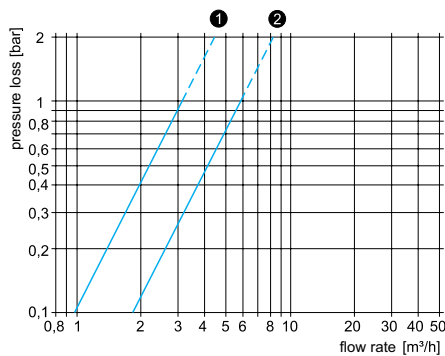


Radio-ready

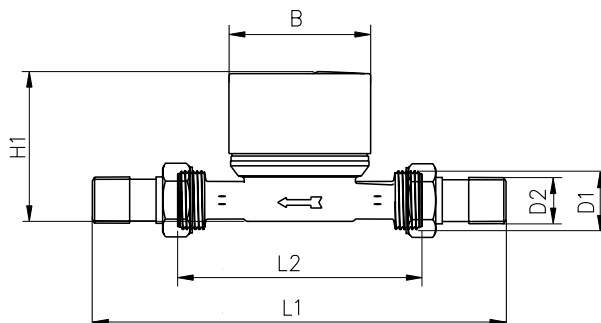
With the addition of an add-on radio module, the ETKD model with modulator disc can be read via radio (wM-Bus as per OMS). A radio module transmits the counter data to a radio modem and these are relayed to a PC or hand-held computer via Bluetooth.



MinoConnectRadio



- ① $Q_3 = 2,5$
- ② $Q_3 = 4$



Technical data

Permanent flow	Q_3	m^3/h	2,5		4	
Comparable to nominal flow (EWG)	Q_n	m^3/h	1,5		2,5	
Overall length without connectors	L2	mm	80	110	130	130
Overall length with connectors approx.	L1	mm	160	190	226	226
Nominal diameter	DN	mm	15	15	20	20
	DN	inch	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
Standard measuring range	Q_3/Q_1	R	40H/40V		80H/40V	
Comparable to metrological class (EWG)	class		A*H/A*V		B*H/A*V	
Maximum flow	Q_4	m^3/h	3,125		5	
Minimum flow	Q_1	l/h	62,5	31	50	
Start-up flow rate		l/h	10		14	
Maximum temperature	-	$^{\circ}C$	30/90			
Operating pressure	PN	bar	10			
Pressure loss at	Q_4	bar	<1			
Width	B	mm	66			
Height	H1	mm	77		80	
Weight		kg	0,42	0,44	0,52	0,52

ZENNER International is certified by:



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