

# Residential Ultrasonic Watermeter

ZIG 300 series

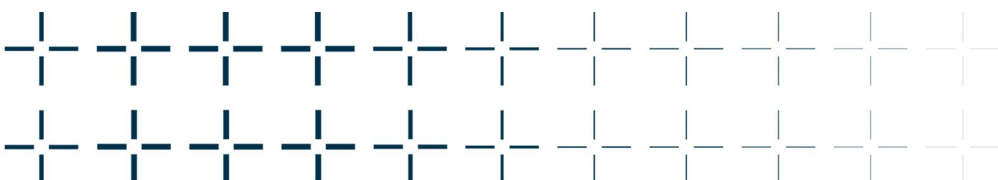


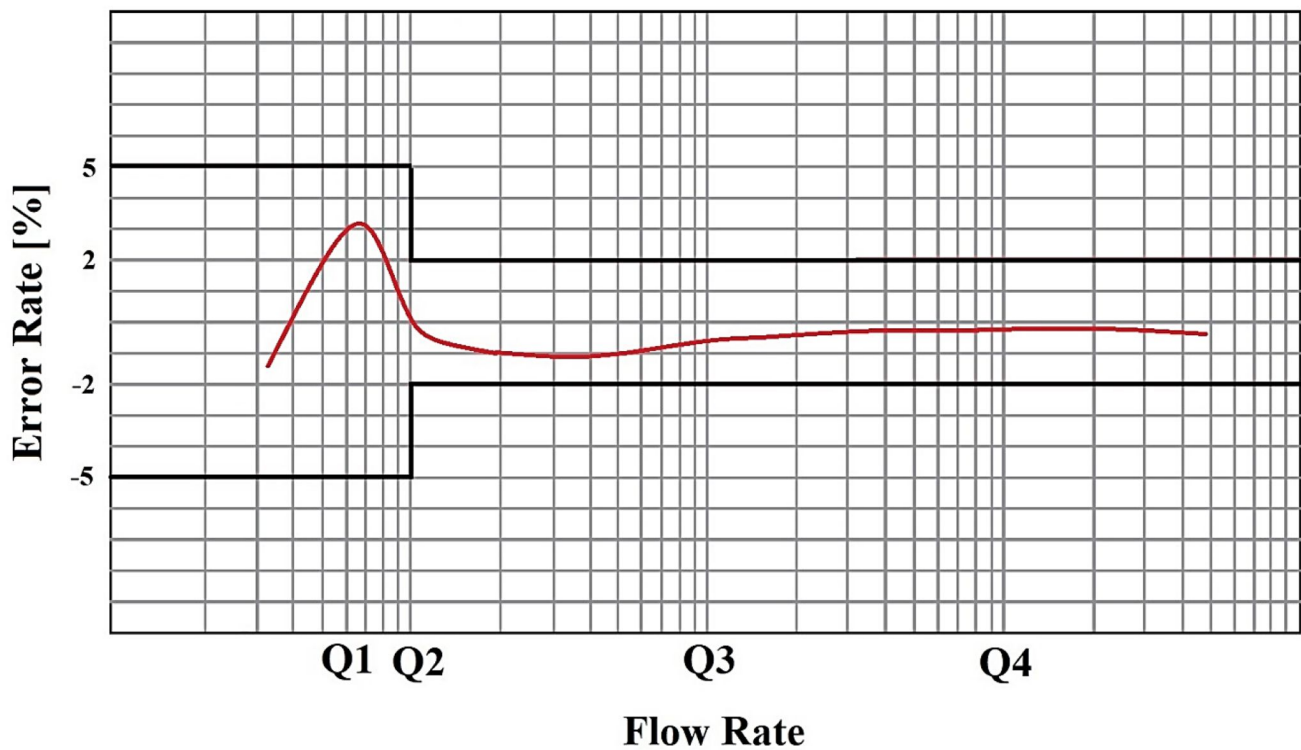
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Revision D.001

- Utilizing ultrasonic measuring technology, that works without any mechanical moving parts and minimizes pressure loss, increases the life of the device.
- Corrosion resistant
- Long battery life (at least ten years)
- Water supply network leak detection
- Equipped with a smart data logger for calculating the shock consumption of the water supply network
- Dust and moisture resistant (IP68)

Nominal diameter	DN15, DN20, DN25, DN32, DN40
Temperature class (°C)	T50
Ambient Temperature (°C)	2-55
Flow Disturbance Immunity Class (EN)	U0, D0
Accuracy class	2, optional: class1
Maximum permissible error in the Range ( $\epsilon$ ): $Q2 \leq Q \leq Q4$	$\pm 2$ for cold water $T \leq 30^\circ\text{C}$ $\pm 3$ for water $T > 30^\circ\text{C}$
Maximum Permissible Error in the Range ( $\epsilon$ ): $Q1 \leq Q < Q2$	$\pm 5$
Water Pressure Class (bar)	MAP16
Pressure Loss Class (bar)	$\leq 0.63$
Installation orientation	H, V, H/V
IP rating	IP68
Battery	Lithium-thionyl chloride (Li-SOCl <sub>2</sub> )
Battery Life Time	Up to 10 years
Display Indication	LCD, 9-digital+prompting character
Display Resolution	Accumulated Flow Rate: 0.001 L Instantaneous Flow Rate: 0.01 L/h
Values Displayed	Accumulated Flow Rate (m <sup>3</sup> , Gal, L), Instantaneous Flow Rate (m <sup>3</sup> /h, GPM, L/h), Optional: Water Temperature (°C), Date (YY/MM/DD), Time (hh/mm/ss), Software Version, Screen Test
Display Range	Accumulated Flow Rate: 0m <sup>3</sup> -9999999.999m <sup>3</sup>
Data Communication	Wireless M-bus, Lora, Wi-Fi, NB-IoT, GPRS, MODBUS (RS485)
Output	Pulse Output



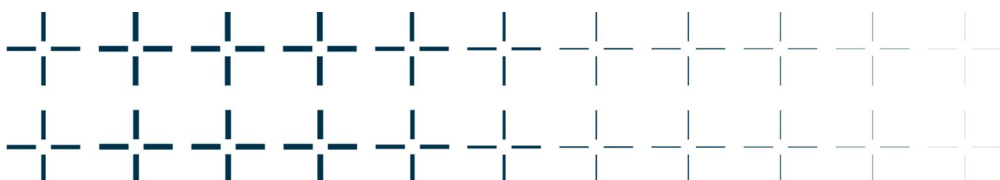


### Flow Parameters (R250)

Meter Size	Q1 [L/h]	Q2 [L/h]	Q3 [m <sup>3</sup> /h]	Q4 [m <sup>3</sup> /h]	Min. Cutoff [L/h]	Max. Cutoff [m <sup>3</sup> /h]	Connection on Meter
DN15	10	16	2.5	3.1	3	4.6	G3/4
DN20	16	25.6	4	5	5	7.5	G1
DN25	25	40	6.3	7.8	7.5	14.5	G1 1/4
DN32	40	64	10	12.5	12	23	G1 1/2
DN40	64	102.4	16	20	19	30	G2

### Flow Parameters (R400)

Meter Size	Q1 [L/h]	Q2 [L/h]	Q3 [m <sup>3</sup> /h]	Q4 [m <sup>3</sup> /h]	Min. Cutoff [L/h]	Max. Cutoff [m <sup>3</sup> /h]	Connection on Meter
DN15	6.25	10	2.5	3.1	3	4.6	G3/4
DN20	10	16	4	5	5	7.5	G1
DN25	16	25.2	6.3	7.8	7.5	14.5	G1 1/4
DN32	25	40	10	12.5	12	23	G1 1/2
DN40	40	64	16	20	19	30	G2



data communication	Accuracy Class	Dynamic range	Size	data communication type	Power Output	Description
20						without communication
21						with communication
	1					Class1
	2					Class2
		A				R160
		B				R250
		C				R400
			15			DN15, Thread size G3/4
			20			DN20, Thread size G1
			25			DN25, Thread size G1 1/4
			32			DN32, Thread size G1 1/2
			40			DN40, Thread size G2
				A		Wireless M-bus
				B		Lora
				C		Wi-Fi
				D		NB-IoT
				E		GPRS
				F		MODBUS (RS485)
				X		None
					1	19Ah
					2	2.7Ah
					A	Pulse output
					X	None

