

Hello, I am the Zenner WR3 heat meter

The new generation of ultrasonic heat and cooling meters for precise energy consumption measurement.



Zenner WR3 Ultrasonic Energy Meter

About

The ZENNER WR3 Ultrasonic Energy Meter offers a robust and future-proofed solution for energy consumption measurement in both heating and cooling applications.

The MID Approved Class 2 standard, compact design, reliability at low flow rates and range of data collection outputs, including MBus, and Pulse makes the ZENNER WR3 Ultrasonic Energy Meter the ideal solution for all energy consumption measurement applications.

Whatever your application, the ZENNER WR3 Ultrasonic Energy Meter is the solution for you.



An Overview of Features and Benefits

- Available as heat, cooling or combined heat and cooling
- MBus output as standard
- Calculator Powered by MBus
- Optional wireless MBus
- 2 pulse inputs or outputs
- Any installation position
- Stores monthly readings during whole running time
- Long battery life and calculator powered by MBus
- Precise, long term stable and wear free
- Range of available nominal flow rates
- Tamper evident features
- MID Class 2 for domestic and commercial billing. Suitable for the RHI
- Special flanged or threaded connections can be requested
- No straight lengths of pipe required
- Split energy meaning parts can be changed without replacing the entire meter
- Battery can be retrofitted on-site

For further technical advice please contact us on:

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Applications

District and Communal Heating Applications

On any heat or cooling network, whether communal or district, the ZENNER WR3 Ultrasonic Energy Meter offers the most reliable and future-proofed solution available.

The compact and smart design ensures the ease of installation in any position. The removable calculator and mounting bracket make the display easy to locate and viewable for consumers, alongside tamper-evident features to both deter and detect fraud.

All ZENNER WR3 Ultrasonic Energy meters offer an MBus 'open-protocol' data collection output as standard, with the meter calculator powered by MBus and not reliant on any battery. Additional meters, such as water or electricity meters, can be connected to one of the two available pulse inputs to provide a cost effective solution to capture all metering data through one data collection method.

The reliable and robust MBus data transfer method complies with the Open Metering System (OMS) standard, ensures that data is not locked to any supplier or manufacturer.

Alongside this a wireless MBus version is available making the ZENNER WR3 Ultrasonic Energy Meter suitable for both new-builds as well as retrofits.

Stand Alone Installations


On any stand-alone installation the ease of installation and operation are key. The ZENNER WR3 Ultrasonic Energy Meter offers proven and reliable ultrasonic measurement technology that is wear free and tolerant of debris, stable over long term measurement, reliable for very low volume flow rates and can be installed in any installation position.

Alongside this a wireless MBus external adapter is available making the ZENNER WR3 Ultrasonic Energy Meter suitable for both new-builds as well as retrofits.

The full range of installation accessories are available including, couplings, ball valves and pockets as required.



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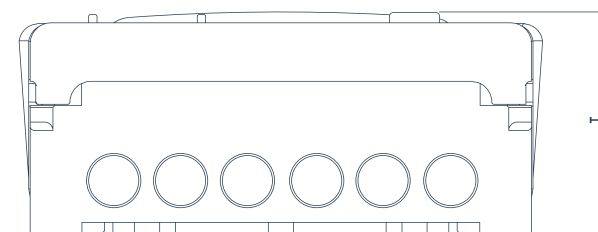
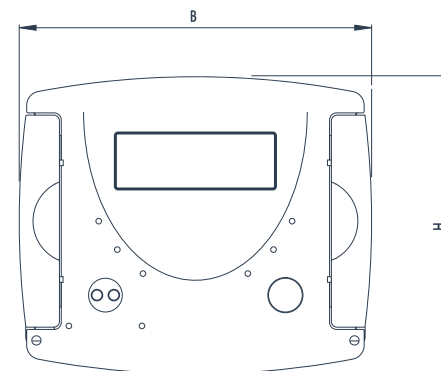
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Technical data		
Temperature range	°C	0 – 150
Temperature difference	K	3 – 120
Temperature sensor		PT 100 / 500 / 1000
Power supply	Years	6 / 11
Protection class	IP	54, 65
Communication		optical, MBus 2 Pulse Input or Output
Length (T)	mm	54
Height (H)	mm	106
Width (B)	mm	120
Environmental class		A



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Nominal flowrate q_p	Overall length	Connection	Maximum flowrate q_s	Minimum flowrate q_i	Response threshold (variable)	Pressure loss at q_p
m^3/h	mm	G/DN	m^3/h	l/h	l/h	mbar
0.6	110	G 3/4	1.2	6	2.4	150
0.6	190	G1	1.2	6	2.4	150
0.6	190	DN20	1.2	6	2.4	150
1.5	110	G 3/4	3	15	6	150
1.5	130	G1	3	15	6	160
1.5	190	G1	3	15	6	160
1.5	190	DN20	3	15	6	160
2.5	130	G1	5	25	10	200
2.5	190	G1	5	25	10	210
2.5	190	DN20	5	25	10	210
3.5	260	G 1 1/4	7	35	14	60
3.5	260	DN25	7	35	14	60
6	150	G 1 1/4	12	60	24	240
6	260	G 1 1/4	12	60	24	180
6	260	DN25	12	60	24	180
10	200	G2	20	100	40	130
10	300	G2	20	100	40	110
10	300	DN40	20	100	40	130
15	200	DN50	30	150	60	95
15	270	DN50	30	150	60	110
25	300	DN65	50	250	100	105
40	300	DN80	80	400	160	160
60	360	DN100	120	600	240	115
150	500	DN150	300	1500	600	120

Measurement insert 4 kg
Tolerance of pressure loss: +/- 5%

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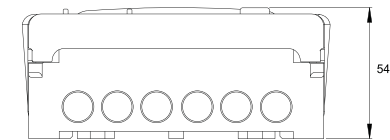
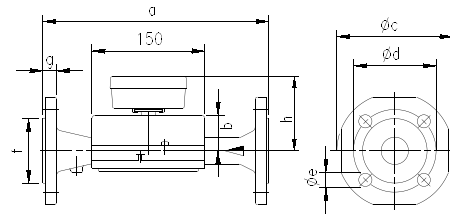
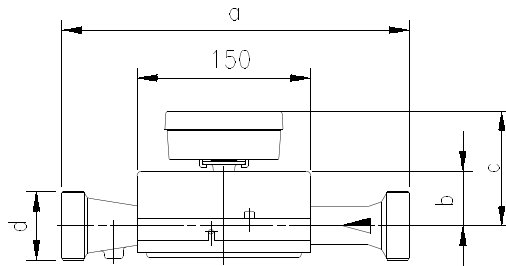


Technical data temperature sensors		
Platinum precision resistor		Pt 500
Sensor diameter/type	mm	45 x 5.2 / 105 x 6.0 / 140 x 6.0 / 230 x 6.0
Temperature range	°C	0 ... 105 / 0 ... 150*
Cable length	m	1.5 or 3 depending on size of meter. (opt. 5)
Installation	VL	By direct immersion or by immersion sleeves (in case of existing measuring points)
	RL	By direct immersion or by immersion sleeves (in case of existing measuring points); integrated in flow sensor (only on meters up to DN40).

Dimensioning limits may apply for non-symmetrical temperature sensors installation.

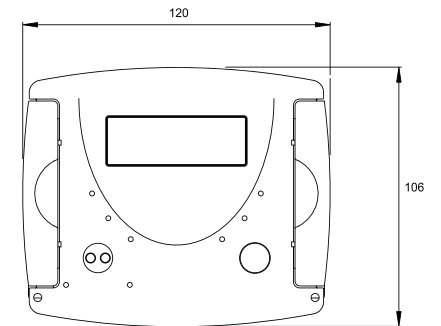
*optional






Order No.	qp m³/h	PN bar	a	b	c	d
2WR7 45	3.5	16	260	51	96	G 1¼ B
2WR7 50	6	16	260	51	96	G 1¼ B
2WR7 55	6	16	150	22	63	G 1¼ B
2WR7 63	10	16	200	48	93	G 2 B
2WR7 60	10	16	300	48	93	G 2 B

Order No.	qp m³/h	PN bar	DN	a	b	Øc	Ød	Øe	No. of holes	f	g	h
2WR7 46	3.5	25	25	260	51	115	85	14	4	68	18	96
2WR7 52	6	25	25	260	51	115	85	14	4	68	18	96
2WR7 61	10	25	40	300	48	150	110	18	4	88	18	93
2WR7 65	15	25	50	270	46	165	125	18	4	102	20	91
2WR7 69				200								107
2WR7 70	25	25	65	300	52	185	145	18	8	122	22	97
2WR7 74	40	25	80	300	56	200	160	18	8	138	24	101
2WR7 82	60	16	100	360	68	235	180	18	8	158	24	113
2WR7 83	60	25	100	360	68	235	190	22	8	158	24	113



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