Technical Datasheet

SYCOUS®

ZENNER

Zenner WR3

Part Code	Name	Output
ZE301WR	WR3 Energy Calculator, 1L, 100Hz, MBus, Pulse, PT5	MBus & Pulse
ZE302WR	WR3 Energy Calculator, 10L, 100Hz, MBus, Pulse, PT	MBus & Pulse
ZE303WR	WR3 Energy Calculator, 100L, 100Hz, MBus, Pulse, P	MBus & Pulse
ZE501WR	WR3 Energy Calculator, 1L, 100Hz, MBus, Pulse	MBus & Pulse
ZE502WR	WR3 Energy Calculator, 10L, 100Hz, MBus, Pulse	MBus & Pulse
ZE401WR	WR3 Energy Calculator, 10L, 1Hz, MBus, Pulse, PT50	MBus & Pulse
ZE402WR	WR3 Energy Calculator, 100L, 1Hz, MBus, Pulse, PT5	MBus & Pulse
ZE601WR	WR3 Energy Calculator, 25L, 1Hz, MBus, Pulse	MBus & Pulse
ZE602WR	WR3 Energy Calculator, 250L, 1Hz, MBus, Pulse	MBus & Pulse
ZE343WR	Zenner WR3 Battery	

Heat calculator for heat and cooling meter

The calculator multidata WR3 is used to measure heating and cooling energy in closed circulation systems. This is a so-called split heat meter, for which a calculator, flow sensor and temperature sensor pair are required.

High level of compatibility

The multidata WR3 is a real all-rounder that can be combined with nearly all standard temperature sensors and flow sensors. A special version is available for flow sensors with a high frequency pulse output. All appliances allow the connection of both the flow sensor and two additional appliances via the pulse generator as standard, e.g. a cold and hot water meter. The meter readings can be called up via the menu on the appliance or via reading systems.

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Suitable for heating and cooling

The multidata WR3 is optimally suited for the measurement of heating and cooling energy. The measured consumption values for cold and heat are saved in separated registers. Areas of application are air-conditioning systems in which both heating and cooling energy is emitted through the same pipeline network.

Performance characteristics in overview

- As a heating, cooling or combined heating / cooling energy calculator
- Temperature sensor connection optional in 4-wire technology
- Two additional inputs/outputs as standard
- Housing can be opened without tools
- Optional with M-Bus, RS 232 and RS 485 interface and programmable data logger
- Mounting on supplied wall adaptor or a standardised top hat rail
- Also available as a version with an external power supply unit

Managed Services

Meter Data Management

Billing Solutions

PAYG Management

Online Account Management

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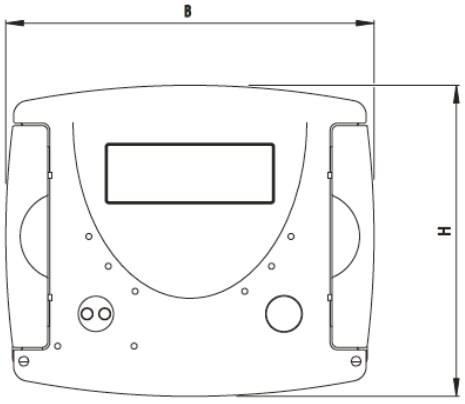
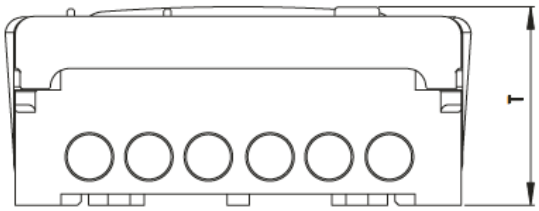
Technical data multidata WR3		
Temperature range	°C	0 - 150
Temperature difference range	K	3 - 120
Display		LCD multifunctional display, 8-digit plus special characters
Display unit		Standard: MWh Optional: kWh, MJ, GJ
Volume pulse generator can be connected		Reed switch, open collector or active Input frequency: max. 1 Hz for passive transmitters, max. 100 Hz for active transmitters
Temperature sensor connection		PT500, optional PT100 oder PT1000
Max. Sensor cable length 2-wire	m	12,5 (PT500), 2,5 (PT100), 20 (PT1000)
Max. Sensor cable length 4-wire	m	20
Data interfaces		As standard: Optical data interface, 2 programmable pulse outputs/inputs optional: M-Bus, RS 485, RS 232
Ambient temperature	°C	C 5 - 55
Power supply 1		Lithium battery 3.6 V Optional: Via M-bus level converter or plug-in power supply (output: 24 V DC)
Battery lifespan		At least 5 years + 1 year reserve, optionally 10 years + 1 year reserve
Protection class		IP 54 / IP 65
Mechanical/electromagnetic class		M1 / E1
Measuring cycle time		In accordance with DIN EN 1434-1
Measuring cycle time		Standard: 30 seconds (10 seconds when operating button is pressed) For versions with M-Bus interface: 10 seconds

Dimensions		
Depth	T	54 mm
Height	H	106 mm
Width	B	120 mm

1 The validity period for the calibration depends on the country, please observe the relevant national regulations.





Dimensions of the multidata WR3

Data Collection

Wired Networks

Wireless Networks

IoT Technologies

MBus & Pulse for any network

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