

POWER MONITOR

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product is no longer available



Advanced functionality of energy data capture

The scope of performance of the ValueLine energy meters goes beyond the core functions of energy measurement.

They are also suitable for determining, storing and visualising further energy quality parameters.

The free "ecoExplorer go" software is available for most types of the product group, on the one hand for device configuration / commissioning / visualisation of the measured values and on the other hand for analysing the power quality.

General ordering data

Version	Power measurement/display for 1-, 3-phase mains
Order No.	1423550000
Type	POWER MONITOR
GTIN (EAN)	4050118227871
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2026-12-30T00:00:00+01:00

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	68 mm	Depth (inches)	2.6772 inch
Height	96 mm	Height (inches)	3.7795 inch
Width	96 mm	Width (inches)	3.7795 inch
Net weight	427 g		

Temperatures

Storage temperature	-25 °C...70 °C	Operating temperature	-25 °C...55 °C
Humidity	35 % to 85 % relative humidity level		

Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	Lead 7439-92-1

Measuring current input

Rated current	1 / 5 A	Current-measuring channels	3
Measuring accuracy for current	0.5 %	Residual current measuring	No

Measuring voltage input

Measuring accuracy for voltage	1 %	Three-wire system	Yes
Measurement range, voltage L-L, AC	0...500 V	Measurement range, voltage L-N, AC	0...250 V (1P3W), 0...289 V (3P4W)
Four-wire system	Yes		

Communication

Interface	RS485: Autobaud, 9,6 – 115.2 kbps (pluggable screw terminals)	Protocol	Modbus RTU
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Inputs/outputs

Number of digital inputs	0
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Measurement data recording

Memory; minimum and maximum values	No	Software	Power Monitor Manager
Integrated logic	No		

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Display value	Apparent power, Effective power, Reactive power, Power factor, Voltage, Current, Frequency, Temperature	Version	Power measurement/display for 1-, 3-phase mains
Type of mounting	DIN rail	Protection degree	Front panel: IP51, Enclosure: IP20, IP20
Pollution severity	2	Rated current	1 / 5 A
Display monitoring (monitor)	LCD	Standards	IEC 61010-1
Measurement range, voltage L-N, AC	0...250 V (1P3W), 0...289 V (3P4W)	Measurement range, voltage L-L, AC	0...500 V
Surge voltage category	II	Supply voltage	100...240 V AC, 100...300 V DC
Supply voltage	230 V	Three-wire system	Yes
Four-wire system	Yes	Sampling frequency 50/60 Hz	40 kHz
Measurement result per second	100000 ms	Residual current measuring	No
Current-measuring channels	3	Measuring accuracy for voltage	1 %
Measuring accuracy for current	0.5 %	Measurement accuracy for active energy (kWh, .../5 A)	1% for the calculated values
Clock	Yes		

Voltage quality measurement

Positive, negative and zero system	Yes	Brief interruptions	Yes
Sequence-of-events recorder function	No		

Insulation coordination

Surge voltage category	II	Pollution severity	2
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Classifications

ETIM 8.0	EC002301	ETIM 9.0	EC002301
ETIM 10.0	EC002301	ECLASS 14.0	27-14-23-30
ECLASS 15.0	27-14-23-30		

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Drawings

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Measurement items

Item	Unit	Data display range
Electric energy (import)	Active	kWh
	Reactive	kvarh
	Apparent	kVAh
Electric energy (export)	Active	kWh
	Reactive	kvarh
	Apparent	kVAh
Instantaneous electric power	Active	kW
	Reactive	kvar
	Apparent	kVA
Current	A	0.000 to 8000.0
Voltage	V	0.00 to 99999
Power factor		-1.000 to 0.000 to 1.000
Frequency	Hz	0.00 to 99.99
Conversion value		0.000 to 9999999.9
Temperature	°C	-100.0 to 0.0 to 100.0

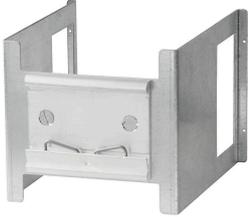
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Accessories

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Accessories



General ordering data

Type	POWER MONITOR BRACKET	Version	
Order No.	2091060000		
GTIN (EAN)	4050118421903		
Qty.	1 ST		