

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com













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Energy meters - ValueLine

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.	<u>1423550000</u>
Туре	POWER MONITOR
GTIN (EAN)	4050118227871
Qty.	1 ST
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			
Approvals	CE		
ROHS	Conform		
Dimensions and weights			
Depth	68 mm	Depth (inches)	2.6772 inch
Height	96 mm	Height (inches)	3.7795 inch
Width Net weight	96 mm 427 g	Width (inches)	3.7795 inch
	427 g		
Temperatures			
Storage temperature	-25 °C70 °C	Operating temperature	-25 °C55 °C
Humidity	35 % to 85 % relative humidity level		
Environmental Product Comp	oliance		
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	0500 V	Measurement range, voltage L-N, AC	0250 V (1P3W), 0289 V (3P4W)
Four-wire system	Yes		
Communication			
Interface	RS485: Autobaud, 9,6 – 115.2 kbps (pluggable screw terminals)	Protocol	Modbus RTU
Measurement data recording	J		
Memory; minimum and maximum values	No	Software	Power Monitor Manager
Integrated logic	No		
Technical data			
Display value	Apparent power, Effective	Version	Power measurement/
Display value	power, Reactive power, Power factor, Voltage,	VOISIUII	display for 1-, 3-phase mains

Creation date 16.07.2025 08:31:15 MEZ

Catalogue status / Drawings 2





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Technical data

	Current, Frequency, Temperature		
Protection degree	Front panel: IP51, Enclosure: IP20	Pollution severity	2
Rated current	1/5A	Standards	IEC 61010-1
Measurement range, voltage L-N, AC	0250 V (1P3W), 0289 V (3P4W)	Measurement range, voltage L-L, AC	0500 V
Surge voltage category	II	Voltage supply	100240 V AC, 100300 V DC
Supply voltage	230 V	Three-wire system	Yes
Four-wire system	Yes	Sampling frequency 50/60 Hz	1024 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 ener	gy 1% for the calculated
		(kWh,/5 A)	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

Classifications

ETIM 6.0	EC002301	ETIM 7.0	EC002301
ETIM 8.0	EC002301	ETIM 9.0	EC002301
ETIM 10.0	EC002301	ECLASS 9.0	27-14-23-30
ECLASS 9.1	27-21-03-01	ECLASS 10.0	27-14-23-30
ECLASS 11.0	27-14-23-30	ECLASS 12.0	27-14-23-30
ECLASS 13.0	27-14-23-30	ECLASS 14.0	27-14-23-30
ECLASS 15.0	27-14-23-30		

Tender specification sheets			
Long specification	Electrical parameters	Short specification	Measuring device t
	have to be measured and visualised to optimise your machines' and systems' energy needs. This is the only way in which an analysis can be carried out and, subsequently, savings made and an energy management system		optimising energy requirements

established. An easy-toinstall solution is now available from Weidmüller. When implementing an energy management system according to ISO 50001, the Power Monitor is one of the modules necessary to meet the requirements of recording, displaying and analysing

power flows. Technical data: for

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Technical data

Input data: measurement variable: active, reactive, apparent power Recording of frequencies of up to 99.99 Hz and temperatures of up to Measurement variable: AC sine (50/60 Hz) designation Input: voltage measurement inputs V1, V2, V3 Input voltage range: 0 VAC - 500 VAC (phase/phase) Input voltage range: 0 VAC - 300 VAC (phase/neutral conductor) Accuracy: 0.5% input current range: via external converters, input current: 8000 A (primary), input current: 5 A (secondary) Response threshold of rated measurement range value: 1 mA Power-measurement range: 0- 9999999.9 kW Power-measurement range: 0- 9999999.9 kvar Power-measurement range: 0- 9999999.9 kVA Accuracy: 1% Interface: RS-485 Type of connection: screw terminals General data: width: 96 mm, height: 96 mm Display: LCD display, backlit display Supply voltage range: 85-264 VAC Rated power consumption: 5 VA, protection degree: IP51 (front), IP20 (rear) Mains type: 3-phase (3 or 4 conductors), 2-phase (2 conductors) and 1-phase (1 conductor), colour: black, conformity: CEcompliant Rated insulation voltage: 300 VAC (EN 61010-1) Overvoltage category: II, ambient temperature (operational): -25°C to 55°C, ambient temperature (storage/transport): -25°C to 70°C Max. perm. humidity (operation): 85%, height above sea level < 2000 m Connection data: flexible conductor cross-section min.: 0.5 mm², flexible conductor cross-section max.: 2.5 mm², rigid conductor cross-section

Data sheet

POWER MONITOR



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min.: 0.2 mm², rigid conductor cross-section max.: 4 mm², type of connection: screw connection Ordering details: product: Weidmüller interface, type: Power Monitor, item no.: 1423550000





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Drawings

Measurement items

		Unit	Data display range
Electric energy (import)	Active	kWh	
	Reactive	kvarh	0.000 to 9999999.9
	Apparent	kVAh	
Electric energy	Active	kWh	0.000 +- 0000000 0
(export)	Reactive	kvarh	0.000 to 9999999.9
Instantaneous electric power	Active	kW	
	Reactive	kvar	-99999 to 0.000 to 99999
	Apparent	kVA	
Current		A	0.000 to 8000.0
Voltage		٧	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

Accessories



General ordering data

Type POWER MONITOR BRACKET Version

Order No. <u>2091060000</u> GTIN (EAN) 4050118421903

Qty. 1 ST

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