ENERGY METER 750-230

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image





Energy meters

Many companies would like to save energy at source, use energy more efficiently and maximise the availability of energy networks. This not only shows responsibility, but is also recommended for economic reasons.
Weidmüller energy meters can do far more than just measure the consumption of electrical energy. For example, the basic parameters for energy quality can also be determined or the currents of all conductors can be analysed individually or differentially - e.g. with our Energy Meter. This allows you a quick status overview of the electrical energy in your production facility. This applies both in relation to efficient usage, as well as to quality, stability and availability.

General ordering data

Version	Supply voltage : 230 V
Order No.	2540910000
Type	ENERGY METER 750-230
GTIN (EAN)	4050118553239
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	72 mm	Depth (inches)	2.835 inch
Height	96 mm	Height (inches)	3.78 inch
Width	96 mm	Width (inches)	3.78 inch
Net weight	250 g		

Temperatures

Storage temperature	-25 °C...70 °C	Humidity at storage temperature	0...90 % RH
Operating temperature	-10 °C...55 °C	Humidity at operating temperature	0 - 75% RH

Measuring current input

Current-measuring channels	4 + 2	Distortion factor THD-I in %	Yes
Harmonics, per order / current	1.-40.	Measuring accuracy for current	0.2 %
Rated current	1 / 5 A	Residual current measuring	Yes

Measuring voltage input

Distortion factor THD-U in %	Yes	Four-wire system	Yes
Harmonics, per order / voltage	1.-40.	Measurement range, voltage L-L, AC	480 V
Measurement range, voltage L-N, AC	277 V	Measuring accuracy for voltage	0.2 %
Quadrants	4	Three-wire system	Yes

Communication

Interface	RS485: 9,6 – 115,2 kbps, Ethernet, Web server/e-mail	Protocol	Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, BACnet (optional)

Inputs/outputs

Number of digital inputs	3	Number of digital outputs	5
Analogue inputs (RCM, temperature, analogue)	2	Number of pulse outputs	5
Temperature input	Yes		

Measurement data recording

Memory; minimum and maximum values	Yes	Memory size	256 MB
Number of memory values	10,000 k	Update interval register	200 ms
Min. memory recording interval	60 s	Software	ecoExplorer go®
Integrated logic	Yes		

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Input frequency	< 20 Hz	Protection degree	IP20, IP40
Rated current	1 / 5 A	Standards	IEC 61010-2-030, IEC 61010-1, IEC 61326-1
Measurement range, voltage L-N, AC	277 V	Measurement range, voltage L-L, AC	480 V
Surge voltage category	300 V CAT III	Voltage supply	90 - 277 V AC (50/60 Hz), 90 - 250 V DC
Supply voltage	230 V	Three-wire system	Yes
Four-wire system	Yes	Quadrants	4
Sampling frequency 50/60 Hz	25.6 kHz	Continuous measurements	Yes
Measurement result per second	5	Effective value from the period (50/60 Hz)	10 / 12
Residual current measuring	Yes	Current-measuring channels	4 + 2
Measuring accuracy for voltage	0.2 %	Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S	Operating-hours counter	Yes
Clock	Yes	Bimetal function	Yes

Voltage quality measurement

Harmonics, per order / voltage	1.-40.	Harmonics, per order / current	1.-40.
Distortion factor THD-U in %	Yes	Distortion factor THD-I in %	Yes
Unbalanced	No	Positive, negative and zero system	Yes
Brief interruptions	Yes	Sequence-of-events recorder function	No

Insulation coordination

Surge voltage category	300 V CAT III

Classifications

ETIM 6.0	EC002301	ETIM 7.0	EC002301
ETIM 8.0	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		

Approvals

Approvals

Approvals	CE
ROHS	Conform
UL File Number Search	E469563

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Technical data

Downloads

Approval/Certificate/Document of Conformity	KC-Certification
Engineering Data	STEP
Software	MODBUS address list Win64 - ecoExplorer go
User Documentation	Quick Guide German/English Manual ECOEXPLORER GO English Manual Energy Meter 750 German/English
Catalogues	Catalogues in PDF-format

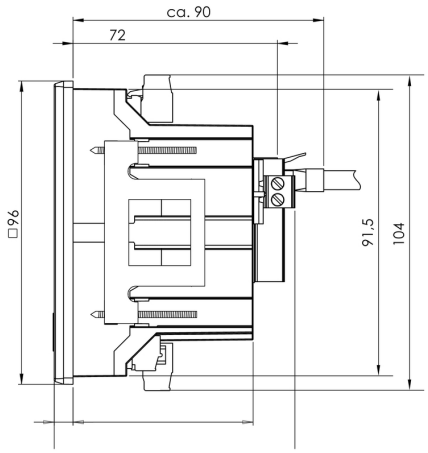
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Drawings

Dimensioned drawing



Dimensioned drawing

