

ENERGY METER 610-PB-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.	2540870000
Type	ENERGY METER 610-PB-230
GTIN (EAN)	4050118552997
Qty.	1 pc(s).

ENERGY METER 610-PB-230

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	65 mm	Depth (inches)	2.559 inch
Height	96 mm	Height (inches)	3.78 inch
Net weight	250 g	Width	96 mm
Width (inches)	3.78 inch		

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	Distortion factor THD-I in %	Yes
Harmonics, per order / current	1.-40.	Measuring accuracy for current	0.2 %
Residual current measuring	No		

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, Profibus DP, USB	Protocol	Modbus RTU, Profibus DP V0
-----------	--	----------	-------------------------------

Inputs/outputs

Number of digital inputs	4	Number of digital outputs	6
Number of pulse outputs	6	Temperature input	No

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		

ENERGY METER 610-PB-230

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Technical data

Protection degree	IP20, IP40	Standards	DIN EN 61326-1, IEC 61010-1, IEC 61010-2-030
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	No	Current-measuring channels	4
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
Weekly time switch	No	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	No	Sequence-of-events recorder function	No

Insulation coordination

Surge voltage category	300 V CAT III
------------------------	---------------

Classifications

ETIM 6.0	EC002301	ETIM 7.0	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

ENERGY METER 610-PB-230

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Downloads

Approval/Certificate/Document of
Conformity

[EU-Declaration of Conformity](#)

Software

[MODBUS address list](#)

[GSD DATA](#)

[Win64 - ecoExplorer go](#)

[USB File](#)

User Documentation

[Quick Guide German/English](#)

[Manual ECOEXPLORER GO English](#)

[Manual Energy Meter 610 PB German/English](#)

Brochure/Catalogue

[Catalogues in PDF-format](#)

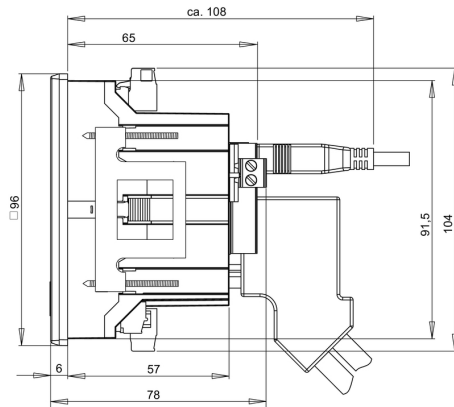
ENERGY METER 610-PB-230

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

www.weidmueller.com

Drawings

Dimensioned drawing



Dimensioned drawing