

ENERGY METER D370-CBM**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 :
Order No.	2540830000
Type	ENERGY METER D370-CBM
GTIN (EAN)	4050118553253
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	46 mm	Depth (inches)	1.811 inch
Height	98 mm	Height (inches)	3.858 inch
Net weight	150 g	Width	71.6 mm
Width (inches)	2.819 inch		

Temperatures

Storage temperature	-20 °C...70 °C	Operating temperature	-25 °C...60 °C
Humidity at operating temperature	5...95 % RH		

Measuring current input

Current-measuring channels	3	Distortion factor THD-I in %	Yes
Harmonics, per order / current	1..25., odd	Measuring accuracy for current	0.2 %
Rated current	1 / 5 A	Residual current measuring	No

Measuring voltage input

Distortion factor THD-U in %	Yes	Four-wire system	Yes
Harmonics, per order / voltage	1..25., odd	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	No

Communication

Interface	RS485: 9,6 – 115,2 kbps	Protocol	Modbus RTU
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Inputs/outputs

Temperature input	No
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Measurement data recording

Memory; minimum and maximum values	Yes	Memory size	4 MB
Number of memory values	160 k	Update interval register	200 ms
Min. memory recording interval	60 s	Software	ecoExplorer go®
Integrated logic	No		

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Rated current		Standards	DIN EN 61000-4-2, DIN EN 61000-4-3, DIN EN 61000-4-4, DIN EN 61000-4-5, DIN EN 61000-4-6, EN 55011, IEC 61010-2-030, IEC 61010-1, IEC 61326-1, DIN EN 61326-1
	1 / 5 A		
Measurement range, voltage L-N, AC	277 V	Measurement range, voltage L-L, AC	480 V
Surge voltage category	300 V CAT III	Three-wire system	No
Four-wire system	Yes	Quadrants	4
Sampling frequency 50/60 Hz	5.4 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	3
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	1-25., odd	Harmonics, per order / current	1-25., odd
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	Yes

Insulation coordination

Surge voltage category	300 V CAT III
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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

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Downloads

Approval/Certificate/Document of Conformity	EU-Declaration of Conformity
Software	MODBUS address list Win64 - ecoExplorer.go
User Documentation	Quick Guide German/English Manual ECOEXPLORER GO English Manual Energy Meter D370 German/English
Brochure/Catalogue	Catalogues in PDF-format

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Drawings

Dimensioned drawing

