ENERGY METER D370-CBM

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

www.weidmueller.com





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.	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
Width	71.6 mm	Width (inches)	2.819 inch
Net weight	150 g		

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

Inputs/outputs

Temperature input	No

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	1 / 5 A	Version	Power measurement/display for 1-, 3-phase mains
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	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 ms
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

Classifications

ETIM 6.0	EC002301	ETIM 7.0	EC002301
ETIM 8.0	EC002301	ETIM 9.0	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		

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

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Approvals

Approvals	
Approvals	CE
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E469563

Downloads

Approval/Certificate/Document of Conformity	Application notes – Declaration of Conformity
Engineering Data	CAD data – STEP
Software	Device description – MODBUS address list Win64 - ecoExplorer go
User Documentation	Device description – Quick Guide German/English Manual ECOEXPLORER GO English Manual Energy Meter D370 German/English
Catalogues	Catalogues in PDF-format

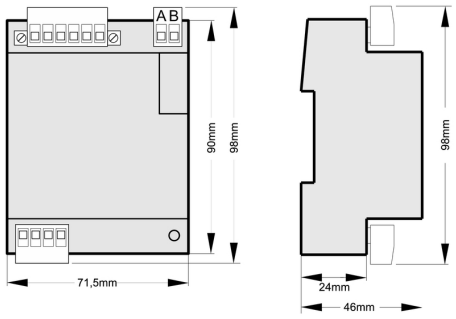
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Drawings

Dimensioned drawing



Connection diagram

