

ENERGY METER 750-24

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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.	2540900000
Type	ENERGY METER 750-24
GTIN (EAN)	4050118553222
Qty.	1 items

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Technical data

Approvals

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

Dimensions and weights

Depth	72 mm	Depth (inches)	2.8346 inch
Height	96 mm	Height (inches)	3.7795 inch
Width	96 mm	Width (inches)	3.7795 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

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Measuring current input

Housing main material	Plastic	Rated current	1 / 5 A
Current-measuring channels	4 + 2	Measuring accuracy for current	0.2 %
Residual current measuring	Yes	Harmonics, per order / current	1.-40.
Distortion factor THD-I in %	Yes	Max. current	5000 A

Measuring voltage input

Low voltage network	3 phase 4 wire (L1 + L2 + L3 + N), 3 phase 3 wire (L1 + L2 + L3)	Measuring accuracy for voltage	0.2 %
Three-wire system	Yes	Quadrants	4
Harmonics, per order / voltage	1.-40.	Distortion factor THD-U in %	Yes
Measurement range, voltage L-L, AC	480 V	Measurement range, voltage L-N, AC	277 V
Four-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)
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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	10000 k	Update interval register	200 ms
Min. memory recording interval	60.00 s	Software	ecoExplorer go®
Integrated logic	Yes		

Technical data

Version	Power measurement/ display for 1-, 3-phase mains	Input frequency	<20 Hz
Type of mounting	Frontpanel mounting	Protection degree	IP40, IP20
Rated current	1 / 5 A	Max. current	5000 A
Display monitoring (monitor)	LCD	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	Supply voltage	24 - 90 V AC (50/60 Hz), 24 - 90 V DC
Supply voltage	24 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 ms	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
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Classifications

ETIM 8.0	EC002301	ETIM 9.0	EC002301
ETIM 10.0	EC002301	ECLASS 14.0	27-14-23-30
ECLASS 15.0	27-14-23-30		

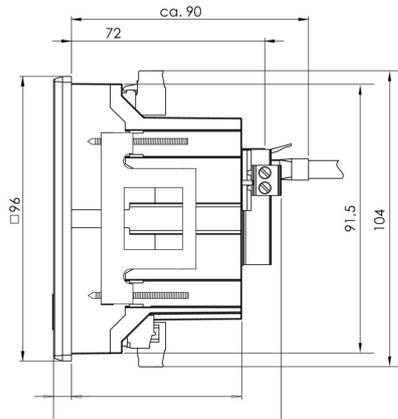
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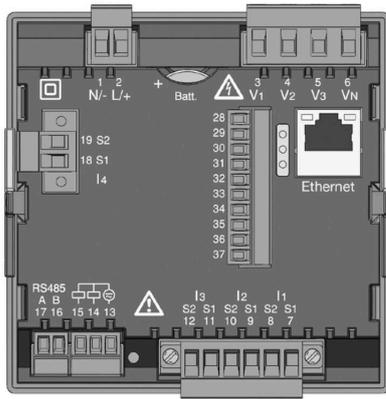
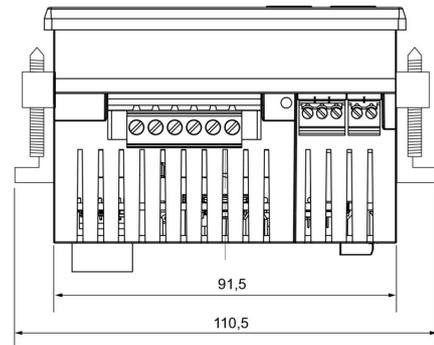
Drawings

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Dimensioned drawing



Dimensioned drawing



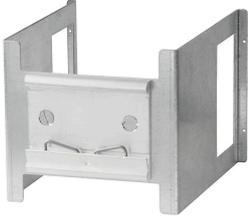
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Accessories

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Accessories



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Type	ENERGY METER BRACKET L1	Version
Order No.	2433060000	
GTIN (EAN)	4050118446388	
Qty.	1 ST	
Type	ENERGY METER FIXING SET	Version
Order No.	2433030000	
GTIN (EAN)	4050118446401	
Qty.	1 ST	
Type	ENERGY METER SEAL L96-2	Version
Order No.	2495610000	
GTIN (EAN)	4050118505931	
Qty.	1 ST	