

## ENERGY METER 525-24

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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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

Type	ENERGY METER 525-24
Order No.	<a href="#">2540880000</a>
Version	Supply voltage : 24 V
GTIN (EAN)	4050118553208
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Width	96 mm	Width (inches)	3.78 inch
Height	96 mm	Height (inches)	3.78 inch
Depth	48 mm	Depth (inches)	1.89 inch
Net weight	250 g		

**Temperatures**

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

**Measuring current input**

Current-measuring channels	3	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	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	Ethernet	Protocol	Modbus TCP/IP, Modbus RTU over Ethernet, SNMP
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**Inputs/outputs**

Temperature input	No
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**Measurement data recording**

Memory; minimum and maximum values	Yes	Update interval register	200 ms
Software	ecoExplorer go®	Integrated logic	Yes

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## Technical data

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Standards	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	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	Effective value from the period (50/60 Hz)	10 / 12
Measurement result per second	5	Residual current measuring	No
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	Current-measuring channels	3
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

## Classifications

ETIM 5.0	EC001102	ETIM 6.0	EC002301
UNSPSC	39-12-15-35	eClass 6.2	27-20-03-90
eClass 7.1	27-37-18-01	eClass 8.1	27-37-18-01
eClass 9.0	27-14-23-30	eClass 9.1	27-21-03-01

## Approvals

Approvals



Approvals	CE
ROHS	Conform

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">EU-Declaration of Conformity</a>
Engineering Data	<a href="#">STEP</a>
Software	<a href="#">MODBUS address list</a> <a href="#">Win64 - ecoExplorer go</a> <a href="#">Unix - ecoExplorer go</a> <a href="#">Win32 - ecoExplorer go</a> <a href="#">Linux64 - ecoExplorer go</a> <a href="#">Linux32 - ecoExplorer go</a>
User Documentation	<a href="#">Quick Guide German/English</a> <a href="#">Manual Energy Meter 525 German English</a> <a href="#">Manual ECOEXPLORER GO English</a>

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**Drawings**

**Dimensioned drawing**

