

## ENERGY METER 525-24

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

[www.weidmueller.com](http://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.	<a href="#">2540880000</a>
Type	ENERGY METER 525-24
GTIN (EAN)	4050118553208
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2026-12-30T00:00:00+01:00
Alternative product	<a href="#">ENERGY METER 535-24</a>

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## Technical data

## Approvals

Approvals	CE; CULUS
Approvals	CE
Approvals	



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate no. (cULus)	E469563

## Dimensions and weights

Depth	48 mm	Depth (inches)	1.8898 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	3	Measuring accuracy for current	0.2 %
Residual current measuring	No	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	Ethernet	Protocol	Modbus/TCP, Modbus RTU over Ethernet
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## Inputs/outputs

Number of digital inputs	0	Number of digital outputs	0
Temperature input	No		

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**Technical data**

**Measurement data recording**

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

**Technical data**

Version	Power measurement/display for 1-, 3-phase mains	Type of mounting	Frontpanel mounting
Protection degree	IP20, IP40	Rated current	1 / 5 A
Max. current	5000 A	Display monitoring (monitor)	LCD
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
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	No
Current-measuring channels	3	Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %	Measurement accuracy for active energy Class 0.5S (kWh, .../5 A)	
Operating-hours counter	Yes	Weekly time switch	No
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
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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		

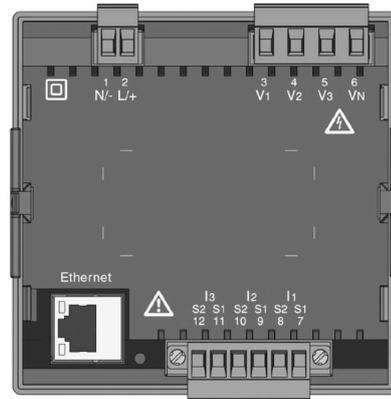
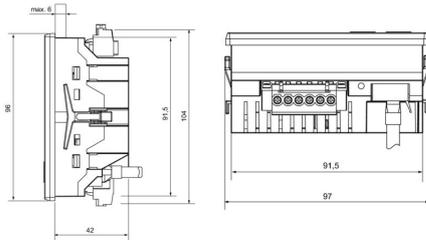
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Drawings

www.weidmueller.com

Dimensioned drawing



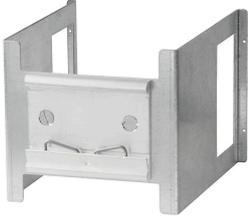
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## Accessories

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### Accessories



### General ordering data

Type	ENERGY METER BRACKET L1	Version
Order No.	<a href="#">2433060000</a>	
GTIN (EAN)	4050118446388	
Qty.	1 ST	
Type	ENERGY METER SEAL L96-2	Version
Order No.	<a href="#">2495610000</a>	
GTIN (EAN)	4050118505931	
Qty.	1 ST	
Type	ENERGY METER FIXING SET	Version
Order No.	<a href="#">2433030000</a>	
GTIN (EAN)	4050118446401	
Qty.	1 ST	