

ENERGY ANALYSER 550-24**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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Increasingly non-linear loads and system components are entering production facilities. They influence the mains frequency, phase shift and the amplitudes of the phases. This has an influence on the quality of the electrical energy and therefore on system availability. Energy analysers, such as the Energy Analyser, measure all quality parameters of the electrical supply network: from the symmetry parameters through to the transients - and many more parameters besides.

With the Energy Analyser you comprehensively test the quality of the electrical energy in your production facility and introduce optimisation steps to maximise the effectiveness and availability of your system.

General ordering data

Order No.	2602580000
Type	ENERGY ANALYSER 550-24
GTIN (EAN)	4050118655841
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	144 mm	Height (inches)	5.669 inch
Net weight	1,080 g	Width	144 mm
Width (inches)	5.669 inch		

Temperatures

Storage temperature	-25 °C...70 °C	Operating temperature	-10 °C...55 °C
Humidity	5...95 %, no condensation		

Measuring current input

Current-measuring channels	4 + 2	Distortion factor THD-I in %	Yes
Harmonics, per order / current	1..63.	Measuring accuracy for current	0.2 %
Rated current	1 / 5 A	Residual current measuring	Yes

Measuring voltage input

Distortion factor THD-U in %	Yes	Four-wire system	Yes
Harmonics, per order / voltage	1..63.	Measurement range, voltage L-L, AC	720 V
Measurement range, voltage L-N, AC	417 V	Measuring accuracy for voltage	0.1 %
Quadrants	4	Three-wire system	Yes

Communication

Interface	Protocol	Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, Profibus DP V0, BACnet (optional)
RS485: 9.6 – 921.6 kbps, Profibus DP, Ethernet, Web server/e-mail		

Inputs/outputs

Number of digital inputs	2	Number of digital outputs	2
Number of pulse outputs	2	Display	LCD 320 x 240, 256 colours, 6 keys
Temperature input	Yes		

Measurement data recording

Memory; minimum and maximum values	Yes	Memory size	256 MB
Number of memory values	10,000 k	Update interval register	200 ms
Min. memory recording interval	1 s	Software	ecoExplorer go®
Integrated logic	Yes		

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Protection degree	IP20, IP40	Rated current	1 / 5 A
Standards	DIN EN 61326-1, 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 61000-4-11, EN 55011, IEC 61010-1, IEC 61010-2-030, DIN EN 61000-4-8	Measurement range, voltage L-N, AC	417 V
Measurement range, voltage L-L, AC	720 V	Surge voltage category	600 V CAT III
Voltage supply	48...110 V AC, 24...150 V DC	Three-wire system	Yes
Four-wire system	Yes	Quadrants	4
Sampling frequency 50/60 Hz	20 kHz	Continuous measurements	Yes
Measurement result per second	5	Effective value from the period (50/60 Hz)	10 / 12
Residual current measuring	Yes	Current-measuring channels	4 + 2
Measuring accuracy for voltage	0.1 %	Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.2S	Operating-hours counter	Yes
Weekly time switch	Yes	Clock	Yes
Bimetal function	Yes		

Voltage quality measurement

Harmonics, per order / voltage	1-63.	Harmonics, per order / current	1-63.
Distortion factor THD-U in %	Yes	Distortion factor THD-I in %	Yes
Unbalanced	Yes	Positive, negative and zero system	Yes
Brief interruptions	Yes	Sequence-of-events recorder function	Yes

Insulation coordination

Surge voltage category	600 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

ROHS	Conform
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Technical data

Downloads

Approval/Certificate/Document of
Conformity

[EU-Declaration of Conformity](#)

Software

[MODBUS adress list](#)

[GSD DATA](#)

[FIRMWARE r4075 build329](#)

[Win64 - ecoExplorer go](#)

User Documentation

[Quick Guide German/English](#)

[Manual Energy Meter 550 German/English](#)

[Manual ECOEXPLORER GO English](#)

Brochure/Catalogue

[Catalogues in PDF-format](#)

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Drawings

