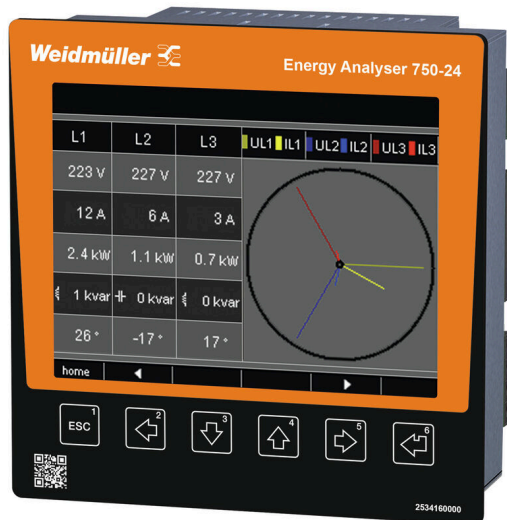


ENERGY ANALYSER 750-24

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

www.weidmueller.com



Energy analysers

More and more non-linear consumers and plant components are finding their way into production facilities. They influence, for example, mains frequency, phase shift and amplitudes of the phases.

This has an influence on the quality of the electrical energy and thus on plant availability.

The energy analysers measure all quality parameters - from the parameters of symmetry to transients - and many more.

After comprehensive testing, optimisation steps can then be initiated to maximise the efficiency and availability of the plants.

General ordering data

| | |
|------------|--|
| Order No. | 2534160000 |
| Type | ENERGY ANALYSER 750-24 |
| GTIN (EAN) | 4050118545821 |
| Qty. | 1 items |

ENERGY ANALYSER 750-24

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

www.weidmueller.com

Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E469563

Dimensions and weights

| | | | |
|------------|--------|-----------------|-------------|
| Depth | 81 mm | Depth (inches) | 3.189 inch |
| Height | 144 mm | Height (inches) | 5.6693 inch |
| Width | 144 mm | Width (inches) | 5.6693 inch |
| Net weight | 1080 g | | |

Temperatures

| | | | |
|-----------------------------------|----------------|-----------------------|----------------|
| Storage temperature | -25 °C...70 °C | Operating temperature | -10 °C...55 °C |
| Humidity at operating temperature | 5...95 % RH | | |

Environmental Product Compliance

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

Measuring current input

| | | | |
|------------------------------|-------------------------|--------------------------------|---------|
| Housing main material | Polycarbonate PC, Metal | Rated current | 1 / 5 A |
| Current-measuring channels | 4 + 2 | Measuring accuracy for current | 0.1 % |
| Residual current measuring | Yes | Harmonics, per order / current | 1.-63. |
| Distortion factor THD-I in % | Yes | Max. current | 5000 A |

Measuring voltage input

| | | | |
|------------------------------------|--|------------------------------------|-------|
| Low voltage network | 3 phase 3 wire (L1 + L2 + L3), 3 phase 4 wire (L1 + L2 + L3 + N) | Measuring accuracy for voltage | 0.1 % |
| Three-wire system | Yes | Quadrants | 4 |
| Harmonics, per order / voltage | 1.-63. | Distortion factor THD-U in % | Yes |
| Measurement range, voltage L-L, AC | 600 V | Measurement range, voltage L-N, AC | 347 V |
| Four-wire system | Yes | | |

Communication

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

Inputs/outputs

| | | | |
|--------------------------|---|---------------------------|-----|
| Number of digital inputs | 2 | Number of digital outputs | 2 |
| Number of pulse outputs | 2 | Temperature input | Yes |

ENERGY ANALYSER 750-24

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

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 | 1.00 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 | 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, DIN EN 61000-4-8, DIN EN 61238-1, EN 61000-4-11, EN 55011, IEC 61010-1, IEC 61010-2-030 |
| Measurement range, voltage L-N, AC | 347 V | Measurement range, voltage L-L, AC | 600 V |
| Surge voltage category | 600 V CAT III | Supply voltage | 48...110 V AC, 24...150 V DC |
| 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 | 0.1 % |
| Measuring accuracy for current | 0.1 % | Measurement accuracy for active energy Class 0.2S (kWh, .../5 A) | |
| 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 |
| Current flicker intensity | Yes | Short/long time flicker | Yes |
| Brief interruptions | Yes | Sequence-of-events recorder function | Yes |

Insulation coordination

| | |
|------------------------|---------------|
| Surge voltage category | 600 V CAT III |
|------------------------|---------------|

Classifications

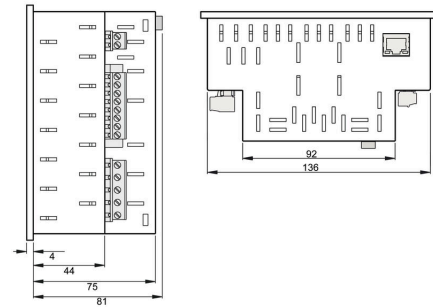
| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002301 | ETIM 9.0 | EC002301 |
| ETIM 10.0 | EC002301 | ECLASS 14.0 | 27-14-23-30 |
| ECLASS 15.0 | 27-14-23-30 | | |

ENERGY ANALYSER 750-24

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

Drawings

www.weidmueller.com



ENERGY ANALYSER 750-24

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

Accessories

www.weidmueller.com

Accessories



General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | ENERGY METER BRACKET B1 | Version | |
| Order No. | 2433040000 | | |
| GTIN (EAN) | 4050118446364 | | |
| Qty. | 1 ST | | |
| Type | ENERGY METER SEAL L144 | Version | |
| Order No. | 2495630000 | | |
| GTIN (EAN) | 4050118505870 | | |
| Qty. | 1 ST | | |