

**ENERGY ANALYSER 750-24****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

25341600009501.eps



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.  | <a href="#">2534160000</a> |
| Type       | ENERGY ANALYSER 750-24     |
| GTIN (EAN) | 4050118545821              |
| 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 at operating temperature | 5...95 % RH    |                       |                |

## Measuring current input

|                                |         |                                |       |
|--------------------------------|---------|--------------------------------|-------|
| Current-measuring channels     | 4 + 2   | Distortion factor THD-I in %   | Yes   |
| Harmonics, per order / current | 1..63.  | Measuring accuracy for current | 0.1 % |
| 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 | 600 V |
| Measurement range, voltage L-N, AC | 347 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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|                                                          |                                                                                                                                                                                                           |                                               |                        |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------|
| Input frequency                                          | < 20 Hz                                                                                                                                                                                                   | Rated current                                 | 1 / 5 A                |
| Standards                                                | DIN EN 61000-4-2,<br>DIN EN 61000-4-3,<br>DIN EN 61000-4-4, DIN<br>EN 61000-4-5, DIN<br>EN 61000-4-6, DIN<br>EN 61000-4-8, DIN EN<br>61238-1, EN 61000-4-11,<br>EN 55011, IEC 61010-1,<br>IEC 61010-2-030 | Measurement range, voltage L-N, AC            |                        |
| Measurement range, voltage L-L, AC                       | 600 V                                                                                                                                                                                                     | Surge voltage category                        | 347 V<br>600 V CAT III |
| Voltage supply                                           | 48...110 V AC, 24...150 V<br>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                                                                                                                                                                                                         | Effective value from the period (50/60<br>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<br>(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    |
| 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 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

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E469563 |

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### Downloads

|                                             |                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU-Declaration of Conformity</a><br><a href="#">Certificate class A</a>                                                                       |
| Software                                    | <a href="#">MODBUS address list</a><br><a href="#">GSD DATA</a><br><a href="#">FIRMWARE r4075 build329</a><br><a href="#">Win64 - ecoExplorer go</a>      |
| User Documentation                          | <a href="#">Quick Guide German/English</a><br><a href="#">Manual Energy Analyser 750 German/Englisch</a><br><a href="#">Manual ECOEXPLORER GO English</a> |
| Brochure/Catalogue                          | <a href="#">Catalogues in PDF-format</a>                                                                                                                  |

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## Drawings

