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Energy consumption indicator EVA12-32A with display

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

Temperature at mounting location:
-10°C up to +55°C.
Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.

! Note: Select english language!*
Maximum current 32 A, standby loss 0.5 watt only.
Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep.
The energy consumption indicator EVA12 uses the current between input and output to measure active energy in the same way as a single-phase power meter. It saves the consumption parameter in a nonvolatile memory.

Like all meters without declaration of conformity (e.g. MID), this meter is not permitted for billing.
Accuracy conforms to Class B MID (1%) like all Eltako single-phase energy meters, the inrush current is 20 mA.

In this way the energy consumption indicator reproduces exactly the reading on the billing energy meter installed at a different location in the building.

The display is subdivided into 3 fields.

- **Field 1:** This display refers to the cumulative value in field 3.
||| moving slowly to the right = Field 3 shows the cumulative consumption since last reset. This is the display standard mode.
H01 = Field 3 shows the consumption for the last hour up to H24 = 24 hours ago.
D01 = Field 3 shows the consumption for the last day up to D31 = 31 days ago.

M01 = Field 3 shows the consumption for the last month up to M12 = 12 months ago.
Y01 = Field 3 shows the consumption for the last year up to Y24 = 24 years ago.

- **Field 2:** Instantaneous values of energy consumption (active power) in watt (W) or kilowatt (kW). The display arrows on the left and right show the automatic change W and kW.
- **Field 3:** Cumulative value in kWh. Display up to 9,999 kWh with 3 decimal digits, from 10 kWh with 1 decimal digit and from 1000kWh without decimal digit.

*** Press the left button MODE** to scroll down the display options which are shown in field 1: H01, D01, M01 and Y01 as described above. Finally, press MODE to show the abbreviation of the set language, e.g. GB for English, D for German and F for French.

Press the right button SELECT once within the display options to increment the indicated figure by 1. The corresponding value is indicated in field 3. The last clock hour then becomes the hour before last, etc.
If the active language was selected with MODE, press SELECT to switch to a different language. Exit the new language setting by pressing MODE to activate the setting.
The program returns to the standard display mode automatically if MODE or SELECT are not operated for 20 seconds or if you press both buttons briefly simultaneously.

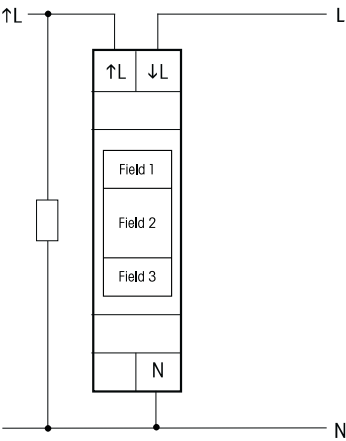
Reset

To start saving the values to the nearest hour, we recommend performing a reset at an opportune moment after installation. Hold down the buttons MODE and SELECT simultaneously for a further 3 seconds until RES appears. Then press SELECT briefly to reset all memories. Afterwards the program returns automatically to standard display mode.

Error messages

- F01 is shown in the display at incorrect direction of current.
- If the voltage drops below 170 V, F02 is shown on the display.

Typical connection



Technical data

Operating voltage, extended range	230 V, 50 Hz, -20%/+15%
Reference current I_{ref} (Limiting current I_{max})	5(32)A
Internal power consumption active power	0.5 W
Display active power	LC display
Accuracy class for $\pm 1\%$	B
Inrush current according to accuracy class B	20 mA
Operating temperature	-10/+55°C
Protection degree	IP50 for mounting in distribution cabinets with protection class IP51
Maximum conductor cross section ¹⁾	6 mm ²
Recommended torque ²⁾	0,8 Nm (max. 1.2 Nm)

¹⁾ The carrying capacity of cables and wires is defined in DIN VDE 0298-4.

²⁾ The torques for screw terminals are mentioned in DIN EN 60999-1.

To avoid damages at the energy meter, the recommended torque values for each terminal must not be exceeded!



The strain relief clamps of the terminals must be closed, that means the screws must be tightened for testing the function of the device. The terminals are open ex works.

Must be kept for later use!

We recommend the housing for operating instructions GBA14.

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