



VIMAR 01456 Smart Automation Current Sensor Instruction Manual

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VIMAR 01456 Smart Automation Current Sensor



Specifications:

- Product Name: SMART AUTOMATION BY-ME PLUS 01456
- Actuator with relay output 16 A 120-230 V~ 50/60 Hz
- · Integrated current sensor
- 1 input channel for toroidal residual current sensor
- DIN rail installation (60715 TH35)
- Occupies 1 17.5 mm module
- Supplied without toroidal residual current sensor (art. 01459)

Product Usage Instructions

Front/Side View and Terminals:

1L NN

Input for current sensor

Optional current sensor (Art. 01459)

Toroidal residual current sensor

Input cable at the terminals of the actuator

Configuration button and manual activation of the actuator

TP BUS terminals

Connections L N LOAD

Manual Management:

When the actuator is not configured, pressing the CONF button performs the switching of the relay.

- 1. Press the configuration button to identify the desired functional unit:
 - Pressing it once identifies the actuator's functional unit (configuration LED blinks slowly)
 - Pressing it a second time identifies the meter's functional unit (configuration LED blinks fast)
 - Pressing again restarts from the actuator functional unit
- 2. Wait approximately 3 seconds for the enrollment procedure to start.
- 3. The configuration starts when the red LED comes on steady and ends when it goes out.

Installation:

The current sensor can be installed in any position or circuit breaker with a rated current not exceeding 16 A.

Regulatory Compliance:

LV directive. Standards EN 61010-1, EN 61010-2-030. EMC directive. Standards EN 61000-6-1, EN 61000-6-3.

FAQ:

1. Q: What is the purpose of the current sensor in this product?

A: The current sensor helps in measuring power, calculating consumption, recording power values, and enabling alarm signaling for malfunctioning like current leakage and load faults.

2. Q: Can this product be used in HVAC management systems?

A: Yes, this product can be utilized in automation, energy-saving, and HVAC management systems.

Actuator with relay output 16 A 120-230 V~ 50/60 Hz with integrated current sensor, 1 input channel for toroidal residual current sensor, DIN rail installation (60715 TH35), occupies 1 17.5 mm module. Supplied without toroidal residual current sensor (art. 01459).

The device performs the function of an actuator and measures the power and calculates the consumption; it also records the power values and enables alarm signalling due to malfunctioning such as current leakage and load faults. The device can be used in automation, energy saving and HVAC management systems.

CHARACTERISTICS

Rated supply voltage mains: 120-230 V∼, 50/60 Hz

Rated supply voltage TP Busbar: 29 V

Absorption from TP Busbar: 5 mA

· Switching on zero crossing

· Terminals:

• TP bus

• 1, L, N, N

- Operating temperature: +5 °C +40 °C (indoor)
- 1 module of 17.5 mm
- IP20 protection rating
- · Overvoltage category: III
- Measurement category: III

OPERATION

• Measuring the power absorbed by the load.

- Monostable/bistable relay behaviour.
- Delay in activation, deactivation and duration.
- Load fault alarm with fault detection power threshold.
- Current leakage alarm with settable current threshold.
- Settable automatic switch-off in case of a leakage alarm.
- · Scenario control.
- · Power value recording.

CONTROLLABLE LOADS

- The controllable loads at 120 230 V ~ (NO contact) are:
 - resistive loads: 16 A (20,000 cycles)
 - incandescent lamps: 8 A (20,000 cycles)
 - fluorescent lamps and energy saving lamps: 1 A (20,000 cycles)
 - electronic transformers: 4 A (20,000 cycles)
 - ferromagnetic transformers: 10 A (20,000 cycles)
 - cos ø 0.6 motors: 3.5 A (100,000 cycles)

MANUAL MANAGEMENT.

When the actuator is not configured, pressing the CONF button performs the switching of the relay.

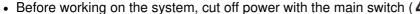
CONFIGURATION.

FOR THE OPERATIONS OF CONFIGURATION, SEE THE INSTRUCTIONS MANUAL FOR THE By-me Plus SYSTEM.

- Functional blocks: 2 (1 actuator, 1 meter), each actuator functional block can belong to at most 4 groups.
- Selection of the functional unit in the configuration phase:
 - Press the configuration button to identify the desired functional unit: pressing it once identifies the
 actuator's functional unit (configuration LED blinks slowly) while pressing it a second time identifies the
 meter's functional unit (configuration LED blinks fast). On pressing again it restarts from the actuator
 functional unit.
 - Wait approximately 3 s for the enrolment procedure to start.
 - The configuration starts when the red LED comes on steady and ends when it goes out. With the device not configured, the actuator functions are inhibited.

INSTALLATION RULES

Installation should be carried out by qualified staff in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.





- **Important:** The two neutral terminals are connected to each other. Do not use the neutral terminals as outputs to power the load.
- This device is compliant with the reference standard, in terms of electrical safety, when it is installed in the

relevant consumer unit.

- If this device is used for purposes not specified by the manufacturer, the protection provided may be jeopardized.
- Observe the maximum current and voltage values given for the device.
- The network power supply circuit must be protected against overload by a device, fuse or circuit breaker with a rated current not exceeding 16 A.

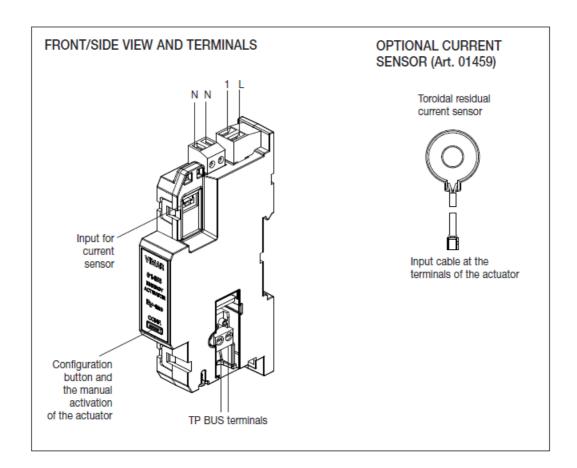
REGULATORY COMPLIANCE.

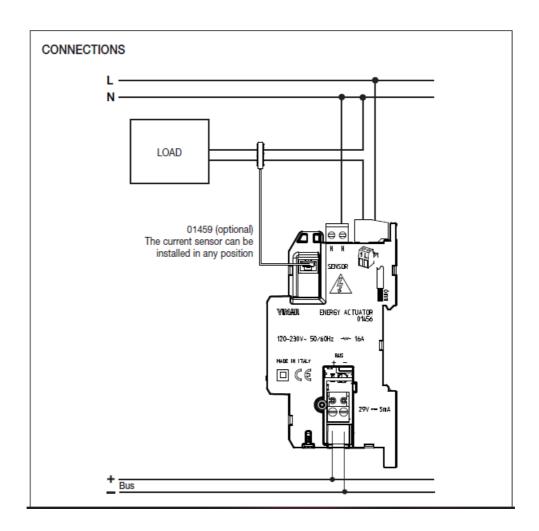
LV directive. Standards EN 61010-1, EN 61010-2-030.

EMC directive. Standards EN 61000-6-1, EN 61000-6-3.

PEACH (ELI) Pagulation po. 1007/2006. Art 33. The product may contain trace.

REACH (EU) Regulation no. 1907/2006 - Art.33. The product may contain traces of lead.







WEEE – Information for users

If the crossed-out bin symbol appears on the equipment or packaging, this means the product must not be included with other general waste at the end of its working life. The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one. Products for disposal can be consigned free of charge (without any new purchase obligation) to retailers with a sales area of at least 400 m2, if they measure less than 25 cm. An efficient sorted waste collection for the environmentally friendly disposal of the used device, or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health, and encourages the re-use and/or recycling of the construction materials.

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Documents / Resources



<u>VIMAR 01456 Smart Automation Current Sensor</u> [pdf] Instruction Manual 01456, 01459, 01456 Smart Automation Current Sensor, 01456, Smart Automation Current Sensor, Automation Current Sensor, Sensor

References

• User Manual

Manuals+, Privacy Policy

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