

By-me Plus electronic control module with 1 NO 3.5 A relay output, 3-speed and proportional fan coil 50/60 Hz 120-240 VAC, 2 proportional analogue 0/1-10 V 1.5 mA outputs with re-scalable voltage, 2 NO 10(3.5) A 120-240 V~ 50/60Hz relay outputs, with function to control lights, fan coil, climate control, accesses, sprinkler system, push buttons for local control, By-me home automation system, installation on DIN rail (60715 TH35), occupies 4 modules size 17.5 mm.

The device is equipped with 7 outputs that can be used as follows:

- the relay outputs OUT1-2-3 for connection to the fans of a fan coil;
- The the relay outputs OUT4 and OUT5 for connection to the valves for temperature control;
- the analogue outputs OUT6 and OUT7 to adjust the aperture of motorised proportional valves accepting variable control signals for voltage (e.g. 0-10V);
- the outputs not used for temperature control can be used to control lights.

The device also envisages an input which can be connected to a remote temperature probe positioned on the fan coil battery so that the fans are only enabled if the temperature is appropriate.

Remember always to check the load requirements (not Vimar) used since the manufacturer may indicate specific requirements necessary for the correct operation of the device (for instance, but not limited to, some manufacturers indicate that only one device should be connected per actuator, regardless of the number of outputs the latter has).

CHARACTERISTICS.


- Rated supply voltage: BUS 29 V.
- Typical current draw: 20 mA.
- Terminals: BUS TP, C+OUT1-2-3, C+NO (OUT4), C+NO (OUT5), OUT6+, OUT6-, OUT7+, OUT7- and 2 terminals for external temperature probe used to detect the temperature of the fan coil batteries and to control the fan coil when the temperature of the water is suitable for the function requested.
- Maximum length of the cable used to connect output OUT6 or OUT7 and valve/temperature control driver/lighting: 50 m; use a twisted cable with a minimum cross-section of 0.5 mm² (art. 01840.x).
- Maximum length of the cable to connect the NTC probe: 60 m (use a twisted cable with a minimum cross-section of 5 mm² (art. 01840.x).
- Current output for every single output OUT6 and OUT7: 1.5 mA.
- Push buttons for manual relay control.
- Push button to enable/disable the manual controls.
- LED for output status.
- LED and configuration button.
- Operating temperature -5 °C +45 °C (indoor).
- Dissipated power: 2 W.
- Protection degree: IP20.
- Overall dimensions: 4 modules of 17.5 mm.
- ErP classification (EU Reg. 811/2013): art. 01473 combined with By-me temperature sensors and thermostats allows you to create a modulating room thermostat in class V (3% contribution).
- Actuator 01473 should be configured with the home automation system gateway 01410-01411 and the View Pro App.

CONTROLLABLE LOADS.

- OUT 1-2-3: motor load 3.5 A (20,000 cycles)
- OUT 4-5: heating load 10 (3.5) A (100,000 cycles)

SUPPLEMENTARY DECLARATIONS MADE BY THE MANUFACTURER.

- OUT 1-2-3:
 - heating load 10 (3.5) A (100,000 cycles)
 - LED lamps: 100 W-240 V~, 30 W-120 V~ (20,000 cycles)

- OUT 4-5:
 - motor load: 3.5 A (20,000 cycles)
 - LED lamps  : 100 W-240 V~, 30 W-120 V~ (20,000 cycles)

N.B. The "-" terminals of outputs OUT6 and OUT7 are connected internally.

OPERATION.

• Front buttons

The following backlit front buttons are present:

- One button to place the device in By-me configuration
- One button to enable the manual function
- 5 buttons to control the relay outputs when the manual function is enabled; each button controls the output identified by the respective number. In manual operation, if configured for the control of a 3-speed fan coil, the 3 fan coil outputs are controlled in a mutually exclusive way.

• LED

The following front LEDs are present:

- 1 red LED to light up the button that places the device in By-me configuration
- 7 orange LEDs to light up the buttons corresponding to the outputs to signal the activation (or not) of the output itself
- 1 orange LED to light up the manual function activation button

The LEDs also signal a fault on the NTC probe as follows:

- The OUT1-OUT2-OUT3 LEDs flash if the control probe is associated with the 3-speed fan coil output

- The OUT6 LED flashes if the probe is associated with the OUT6 proportional output
- The OUT7 LED flashes if the probe is associated with the OUT7 proportional output

• Possible functions.

- Controlling motorised proportional valves for temperature control systems
- 3-speed fan coil control
- ON/OFF valve control
- Dimmer control/lighting driver control
- Generic load control for lighting

CAUTION:

- Outputs OUT1-2-3 must all manage the same type of application (temperature control or lighting) and not a combination thereof.
- Outputs OUT6 and OUT7 must all manage the same type of application (heat control or lighting) and not a combination thereof.


For a detailed description of all the parameters, see the By-me Plus system manual.

CONFIGURATION WITH VIEW PRO APP.

For the configuration operations, see the By-me Plus system instruction manual.

- One of the following behaviours can be selected for relay outputs OUT1-2-3:
 - A single 3-speed actuator for temperature control
 - 3 relay actuators with or without timed functions for lighting control
- One of the following behaviours can be selected for relay outputs OUT4 and OUT5:
 - 2 relay actuators for temperature control
 - 2 relay actuators with or without timed functions for lighting control
- "Fan enabling" can be selected for the NTC input
- One of the following behaviours can be selected for proportional outputs OUT6 and OUT7:
 - Proportional actuator
 - Proportional actuator with timed functions
 - Proportional actuator for climate control operation up to a maximum of 2 independent fan coils with proportional speed adjustment and on/off valve

MANUAL MANAGEMENT.

After pressing button , with the ensuing lighting up of the associated LED; the device outputs can be managed according to the configuration set.

Control of outputs OUT4 and OUT5

Outputs OUT4 and OUT5 can be controlled. The status of each output is indicated by the respective LED.

Control of outputs OUT1, OUT2 and OUT3

The behaviour of outputs OUT1-OUT2-OUT3 depends on the system configuration.

After By-me configuration:

- If outputs OUT1-OUT2-OUT3 are configured for the control of a 3-speed fan coil, they work with an interlock; no more than one output can ever be activated at the same time, thereby avoiding damage to the connected fan coil.
- If outputs OUT1-OUT2-OUT3 are configured for lighting control, each output can be controlled independently, without any restrictions on the status of the others.

Before By-me configuration:

Outputs OUT1-OUT2-OUT3 work with an interlock. The simultaneous activation of several outputs is not allowed, in order to avoid possible damage to any fan coil connected.

Note: If a physical address has been assigned to the device but the output has not been configured in an application, the manual control of the output does not perform the control.



INSTALLATION RULES.

- Installation must be carried out by qualified persons in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.
- The power supply to the controllable loads must be insulated from the power supply network by double insulation or reinforced insulation.
- Follow any installation instructions for the devices controlled.
- Do not connect a SELV circuit to an output adjacent to another one connected to the mains voltage.
- The electronic 1-way switch must be protected by directly associated fuses with a rated breaking capacity of 1500 A or by automatic 1-way switches with a rated current not exceeding 10 A.

CAUTION:

- The sum of the currents circulating on the 5 relay outputs must not exceed 32 A, distributed across circuits that are separately protected by the protection devices specified.
- The sum of the currents circulating on relay outputs 1-2-3 must not exceed 10 A.

REGULATORY COMPLIANCE.

LV Directive. EMC directive. RoHS directive.

Standards EN IEC 60669-2-1, EN IEC 63044, EN 50491, EN IEC 63000.

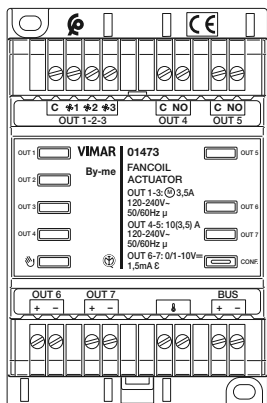
REACH (EU) Regulation no. 1907/2006 - Art.33. The product may contain traces of lead.



WEEE - User information

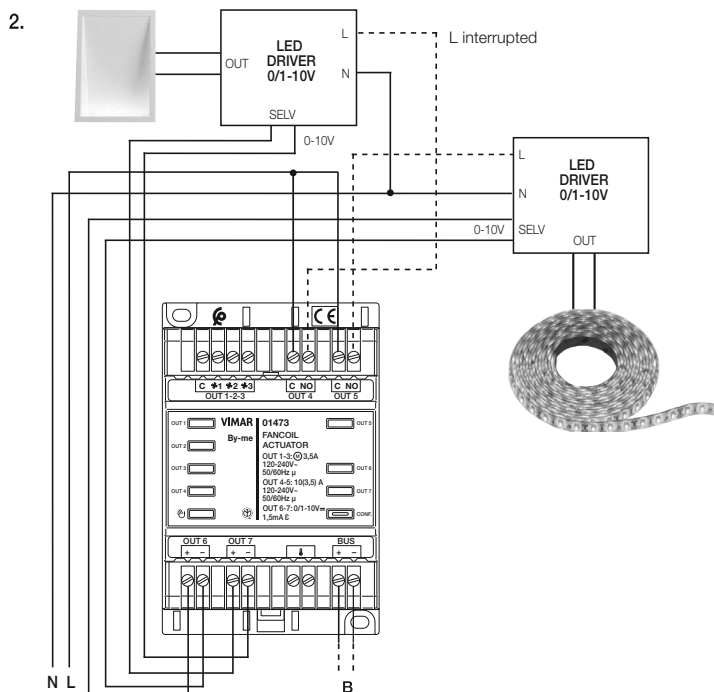
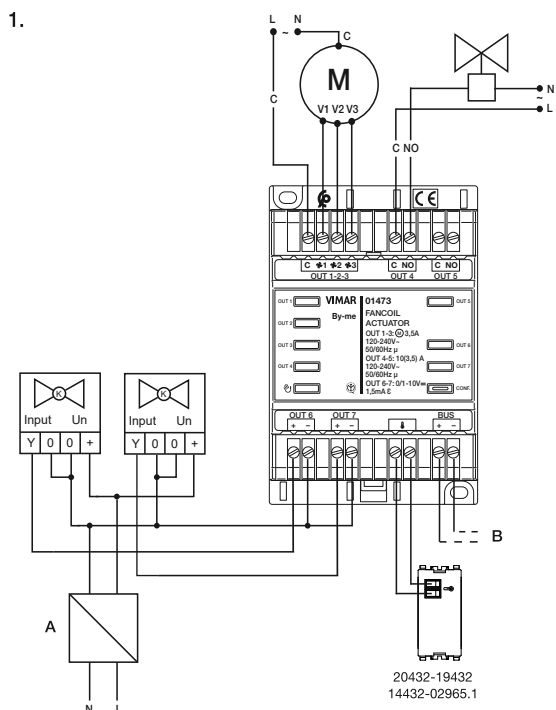
The crossed out bin symbol indicates that the product must be sent to separate collection facilities for recovery and recycling, in compliance with the national laws of EU Countries that implement the WEEE Directive. The objective is to prevent any harmful effects on the environment and on human health by ensuring that products are disposed of correctly, avoiding illegal disposal sanctioned by law. To dispose of the product correctly, please check local dispositions in your country.

FRONT VIEW AND TERMINALS



- OUT 1-2-3: Relay outputs for fan coil fans
- OUT4 (C,NO), OUT5 (C,NO): Relay outputs for temperature control valves
- OUT6 (+), OUT7(+): Analogue outputs for proportional valves (the terminals - are connected internally)
- OUT1...OUT5: LED and Push button to actuate output 1.... LED and Push button to actuate output 5
- OUT6, OUT7: Outputs 6 and 7 signalling LED
- : Manual mode push button
- CONF: LED and configuration push button
- : NTC probe inputs
- BUS +, -: Bus Line

CONNECTIONS



- A: External power supply unit
- B: TP bus