XT By-me home automation system control device, thermostat function for room temperature control (heating and air-conditioning), 2- and 4-pipe system management, 3-speed and proportional fan coil control, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, can be interfaced with actuator with proportional analogue outputs 01466.1 to create a class V modulating room thermostat (contribution 3%), humidistat function with ON/OFF control with respect to a set parameter, VOC (volatile organic compound) function with ON/OFF control or t o call up 2 scenarios, 2 push button function with configuration as 1 rocker button with status identification LED, central LED matrix to customise symbols or animation, proximity function, white LED backlighting, white - 2 front modules.

The device is integrated with the following four sensors:

• Thermostat (T)

The thermostat is integrated with the By-me home automation system for temperature control in 2- or 4-pipe systems (heating/air conditioning) and neutral zone (4-pipe systems only), with "boost" function to activate a second source that makes it possible to reach the desired thermal comfort faster. The thermostat is fitted with a white LED matrix display and 2 buttons to control the temperature setpoint and to turn the temperature control system on/off. Opposite each button are white LEDs for the "up and down arrow" or "+ and -" symbols. There are also two LEDs that indicate the heating phase (amber or configurable white LED) or cooling phase (blue or configurable white LED). During the configuration phase, you can choose whether to view the room temperature, the current setpoint or the current setpoint delta normally. The thermostat can be configured to integrate HVAC type split/VRV systems via third-party KNX interfaces.

• Humidistat (H)

The humidistat is integrated with the By-me Plus home automation system and allows the current humidity to be shown on the display or on the View App. It also allows the sending of an On/Off control on the bus when the humidity value increases or decreases with respect to a parameter set during the configuration phase. It can be used to manage ventilation and for dewpoint management, in combination with the temperature and VRV systems.

• VOC sensor

The VOC (volatile organic compounds) sensor is integrated with the By-me Plus home automation system and allows the air quality variations to be shown on the display or on the View App. It also allows the sending of an On/Off control or to call up 2 scenarios when the air quality worsens or improves with respect to parameters set during the configuration phase. The VOC sensor, in combination with temperature and humidity, makes it possible to manage ventilation to improve the quality of the air.

• Proximity sensor

The proximity sensor (the sensitivity of which can be set via the View Pro App) enables the multisensor activation by approaching a hand at a distance set during the configuration phase. Activation propagates the information to the other controls on the same electrified XT mounting frame. The time on standby is configurable.

The device can be used in the following ways:

• Mode 1 - "Thermostat": Locally controlled thermostat for ON/OFF + setpoint adjustment, possibly with interface block function (as per parameter) without symbols on the keys. The symbols of the upper and lower keys can be customised, choosing from the library.
It allows:
- Viewing of temperature and setpoint on central display. If the climate control art. 32044.x is present, values T, H and VOC will be shown on the display (they will in any case always be displayed on the View App).
- Editing of the values: summer_winter/fan speed/Celsius_Farenheit/on_off using the external keys of the climate control.

• Mode 2 - "Push button control/rocker switch with thermostat probe": Control with 2 push buttons or 1 rocker switch where the 2 keys can be configured as 2 push buttons or grouped together as 1 rocker switch + "By-me" thermostat controllable from the View App.
The symbols of the upper and lower keys can be customised. In the case of 1 rocker switch the central white LED matrix can be used for customised symbols or for animation, while in the case of 2 push buttons it can be used to display any alarms, load status and scenario activation with customised symbols.
The values T, H and VOC are not shown on the display but only on the View App or on the touch screens.

• Mode 3 - "Sensor viewer": Viewer of the values T, H and VOC on the display. It is used as a simple viewer and normally shows the current temperature. Using the two keys on the device (or with climate control art. 32044.x) the values of remote probe temperature, humidity, and air quality can be browsed and displayed.

• Mode 4, "VRV systems control": Control of VRV systems via the KNX gateway.
The locally controlled thermostat for ON/OFF + setpoint adjustment, possibly with interface block function (as per parameter) without symbols on the keys.
The symbols of the upper and lower keys can be customised, choosing from the library.
It allows:
- Viewing of temperature and setpoint on central display. If the climate control art. 32044.x is present, values T, H and VOC will be shown on the display (they will in any case always be displayed on the View App).
- Editing of the values: operating mode/fan speed/Celsius_Farenheit/on_off using the external keys of the climate control.

• Mode 5, "Push button control/rocker switch with thermostat probe for split/VRV integration": Control with 2 push buttons or 1 rocker switch where the 2 keys can be configured as 2 push buttons or grouped together as 1 rocker switch + thermostat (split/VRV integration) controllable from the View App.
The symbols of the upper and lower keys can be customised. In the case of 1 rocker switch the central white LED matrix can be used for customised symbols or for animation, while in the case of 2 push buttons it can be used to display any alarms, load status and scenario activation with customised symbols.
The values T, H and VOC are not shown on the display but only on the View App.

Functions available for each mode:

• Viewing of humidity/air quality/external temperature on the View App, IP touch screens and use for logics.
• Sending of ON/OFF controls when the humidity value measured increases/decreases with respect to a threshold configured with the View Pro App (sending of two controls in reference to two thresholds).
• Sending of ON/OFF control or activation of two scenarios when the air quality improves or worsens with respect to a threshold configured with the View Pro App.
• Wake-up of device upon external events (e.g. change in contact interface status, integration with By-alarm Plus, PIR sensors).

CHARACTERISTICS.

• Power supply: supplied with electrified XT mounting frame art. 32602.x, 32603.x, 32604.x or 32614.x and related node art. 32001.
• Maximum absorption from the BUS: 15 mA.
• Red LED and configuration/reset push button
• Rear connection to the electrified XT mounting frame 32602.x, 32603.x, 32604.x or 32614.x.
• Occupies 2 front module size 30.5 mm
• Brightness on standby levels selectable from the related parameters
• Hysteresis: adjustable from 0.1°C to 1°C.
- Temperature measurement precision of the built-in sensor: measurement range from 0 to 40°, ±0.5 °C between 15 °C and 30 °C, ±0.8 °C at the extremes.
• Precision of integrated sensor humidity measurement: ± 6RH% typical (in still air at 20 °C and 50RH%)
• Management of 2- and 4-pipe systems.
• Heating, air conditioning with management of the neutral zone (only with 4 pipes).
• Operation via a dedicated ON/OFF hot/cold valve By-me actuator with actuator 01471 and proportional type (0-10 V, 4-20 mA) with actuator 01466.1.
• Fan coil management (3 speeds/proportional, ON/OFF valves).
• Selectable PID or ON/OFF control algorithm:
- the ON/OFF algorithm is the control which, on exceeding the set temperature increased by the threshold value (vice versa for air conditioning), the heating is switched off to then be turned back on when the room temperature drops below the set temperature.
- PID is a sophisticated algorithm capable of keeping the temperature in the room more stable and it works by switching the system on and off so as to be like a gradual increase or decrease in the system's thermal (or refrigerating) power; ideal for use in floor heating systems, the algorithm needs to be properly calibrated according to the type of environment and system.
• Boost function: control of an auxiliary actuator to speed up the heating or air conditioning of the environment.
• Mild season function: available from the supervisor only for systems configured with 4 pipes; when active, the secondary output is controlled with its own parameters.
• Possibility of using an external sensor connected to the BUS for:
- Replacement of the internal sensor.
- Average with the internal one.
- Screed temperature limitation.
- Display on display only.
• Open window management function with delayed power on and off management.
• Remote manageable device.
• Possibility of using an offset to correct the reading of the temperature measured according to a possible sample thermometer in order to compensate for errors due to special installations (North-facing wall, proximity to hot/cold water pipes, etc.).
• The thermostat can be controlled from a button on the device 32044.x for the ON/OFF, scrolling the viewable values, heating/cooling, fan speed modification, degrees Celsius/Fahrenheit modification, display functions.
• Humidity check: control of an actuator to activate humidification or dehumidification systems.
• Air quality check: control of an actuator to activate air recirculation systems. Calling up of scenarios if the air quality improves or worsens.
• Dewpoint calculation: if there is a risk of dew forming, the thermostat is switched off and sends an alarm signal on the bus to the dedicated object (the delivery temperature required for the calculation can be received via bus or be set fixed using a parameter).
• 17x7 LED matrix.
• Operating temperature: 0 °C - +40 °C (-T40, indoor use).
• ErP classification (EU Reg. 811/2013):
- ON/OFF: class I, contribution 1%;
- PID: class IV, contribution 2%;
- with actuator with proportional analogue outputs 01466.1: class V, contribution 3%.
• Configurable with the View Pro App.
• Controllable via View App, Amazon Alexa, Google and Siri voice assistants.
• Protection degree: IP30
• Tracking index: PTI175
• Degree of pollution: 2 (normal)

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- Rated pulse voltage: 4000 V
- Software class: A

CONFIGURATION with View Pro APP.

For full details, see the manuals, which can be downloaded from the website www.vimar.com.

Every time the power supply is restored, the device will have to wait for the values from other sensors to be acquired, if configured on the BUS and used for internal logics. We recommend a suitable sensor transmission policy to guarantee the desired behaviour.

The View App can be used to set:

- Time schedules (times and temperature levels T1, T2 and T3)
- Setpoint for all operating modes (Manual, Reduction, Absence, Protection)
- Timed manual operation time: from 0.5 to 23.5 hours (with 0.5-hour steps); default = 1 hour

INSTALLATION RULES.

- Installation and configuration 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 device should be installed on electrified XT mounting frames with:
  - 2 modules art. 32602.x (for 2-module mounting box)
  - 3 modules art. 32603.x (for 3-module rectangular mounting box)
  - 4 modules art. 32604.x and 32614.x (for 4-module rectangular mounting box)
- To obtain the temperature and humidity performance levels declared, **the device should be installed in the furthest place to the right** in the electrified XT mounting frame 32602.x, 32603.x, 32604.x; what's more, **a maximum of one actuator can be installed at the back in the furthest place to the left** in electrified XT mounting frames 32603.x and 32604.x. If this type of installation is not observed, you will need to set an offset for the correct temperature calibration (the temperature measurement accuracy is however not guaranteed).
- The device must be surface mounted using the electrified XT mounting frame, typically at a height of 1.5 m above floor level, in a suitable position for the correct detection of the room temperature, avoiding installation in recesses, behind doors and curtains, areas affected by heat sources or subject to the flow of forced heating/cooling ventilation sources or affected by atmospheric factors. Avoid in particular installation on perimeter walls or in association with devices which generate heat (e.g. dimmers or lamps).

REGULATORY COMPLIANCE.

LV Directive. EMC directive. RoHS directive.

Standards EN 60730-2-9, EN 50491-2, EN IEC 63044, EN IEC 63000.

Temperature control device regulation (EU) no. 811/2013.

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

WEEE - User information

The crossed bin symbol on the appliance or on its packaging indicates that the product at the end of its life must be collected separately from other waste. The user must therefore hand the equipment at the end of its life cycle over to the appropriate municipal centres for the differentiated collection of electrical and electronic waste. As an alternative to independent management, you can deliver the equipment you want to dispose of free of charge to the distributor when purchasing a new appliance of an equivalent type. You can also deliver electronic products to be disposed of that are smaller than 25 cm for free, with no obligation to purchase, to electronics distributors with a sales area of at least 400 m². Proper sorted waste collection for subsequent recycling, processing and environmentally conscious disposal of the old equipment helps to prevent any possible negative impact on the environment and human health while promoting the practice of reusing and/or recycling materials used in manufacture.

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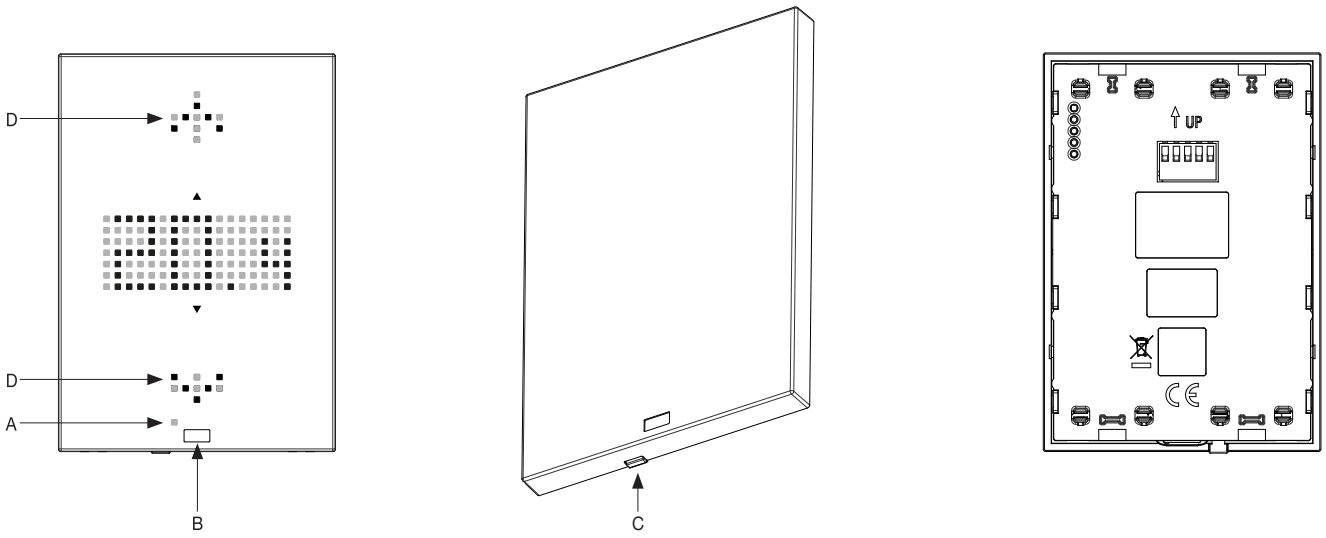
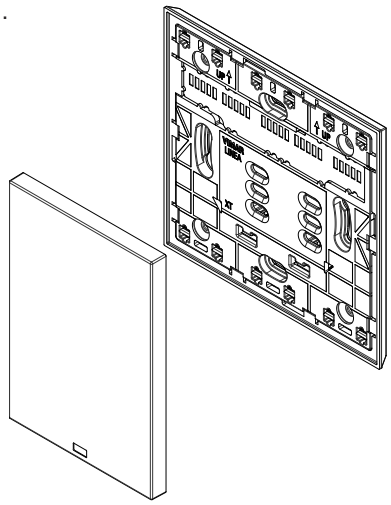
FRONT AND REAR VIEW



A: Red LED
B: Proximity sensor
C: Configuration/Reset push button
D: Push button and white LED matrix

HOOKING THE DEVICE

1.



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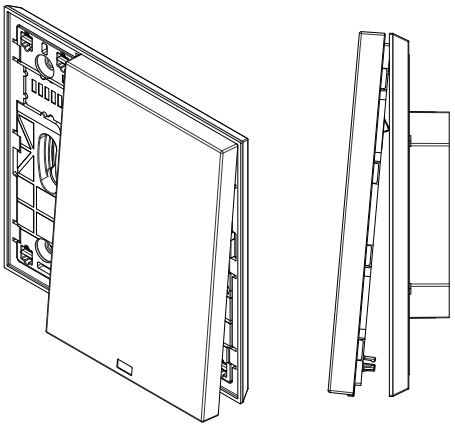

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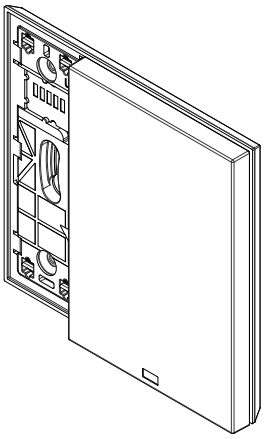
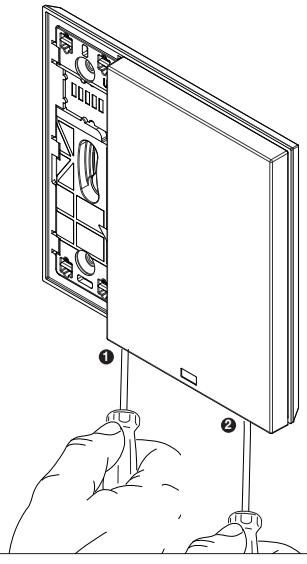


See the INSTALLATION RULES chapter for the position.

REMOVING THE DEVICE

1.



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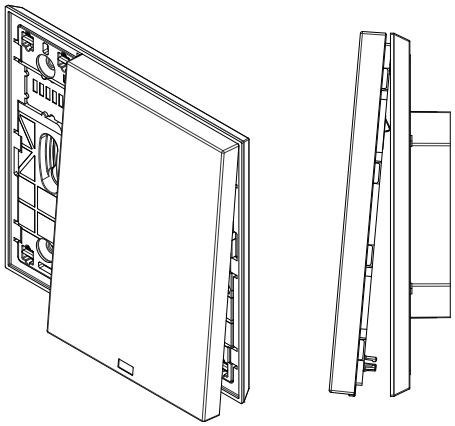

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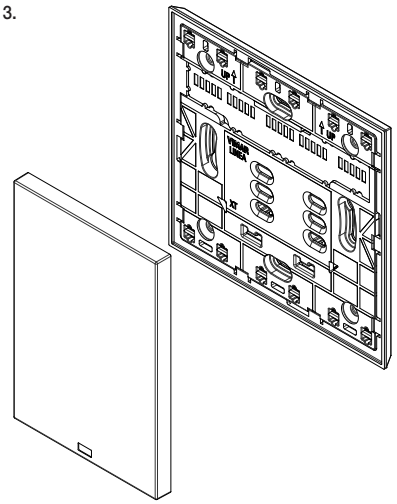

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