

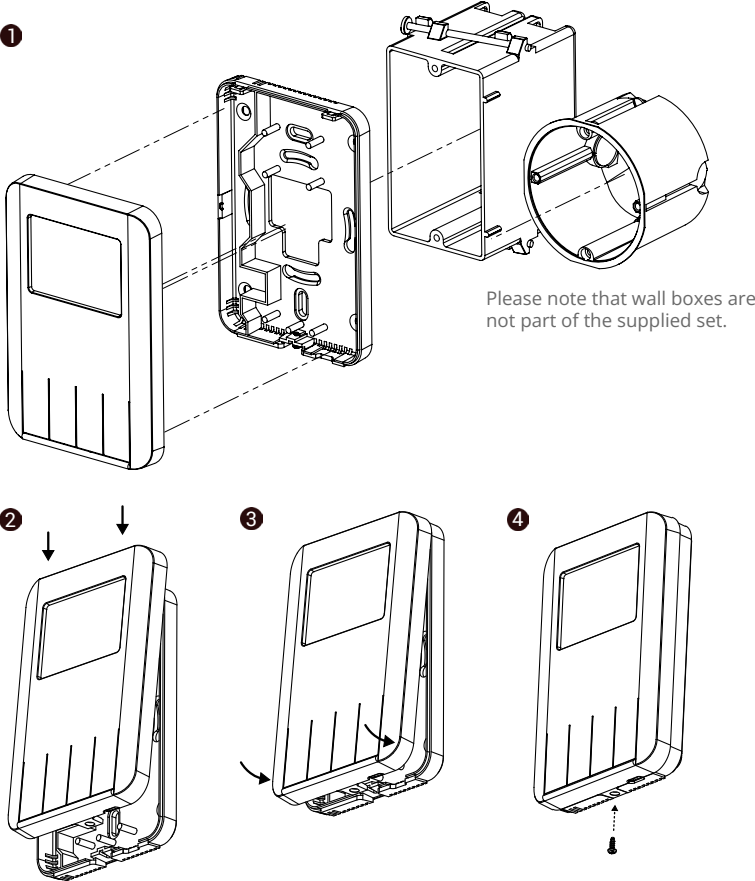
Control Point

CP-DISP-B, CP-DISP-W, CP-H-DISP-B, CP-H-DISP-W, CP-C-DISP-B, CP-C-DISP-W,
CP-HC-DISP-B, CP-HC-DISP-W, CP-VAV-DISP-B, CP-VAV-DISP-W,
CP-VAV-H-DISP-B, CP-VAV-H-DISP-W, CP-VAV-C-DISP-B, CP-VAV-C-DISP-W,
CP-VAV-HC-DISP-B, CP-VAV-HC-DISP-W

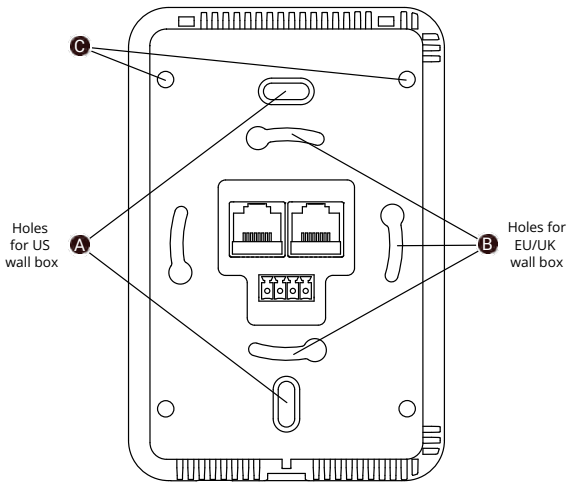


SPECIFICATION	
Power supply	DC: 20-34 V DC; 0.6 W (w/o CO ₂ sensor), 0.9 W (with CO ₂ sensor) AC: 24 V ± 20%; 1.8 VA (w/o CO ₂ sensor), 2.5 VA (with CO ₂ sensor)
Temperature sensor	10k NTC type, range: 0-50°C, accuracy: ±0.5°C
Humidity sensor	(Optional) Range: 0-100% RH, accuracy: ±2% RH in range of 10-90% RH
CO ₂ sensor	(Optional) Range: 400-2000 ppm, accuracy: ±50 ppm, ±5% of reading
Display	LCD 2.6"
Interface	RS485, USB type C
Ingress protection	IP20 - for indoor installation
Temperature	Operating: 0°C to 50°C (32°F to 122°F) Storage: -40°C to +85°C (-40°F to +185°F)
Relative humidity	5 to 95% RH (without condensation)
Connectors	2 RJ45 connectors Screw terminal, separable max. 1.5 mm ² (26...16 AWG)
Dimensions	86.3 x 129.3 x 24.8 mm (3.4 x 5.1 x 0.98 in)
Mounting	Supported junction boxes: EU/UK single 65 mm, US single vert. 2x4
Housing material	Plastic, self-extinguishing PC/ABS

MOUNTING VIEW



MOUNTING HOLES AND SCREWS



A (US wall box): Socket head screw:

- d1 - max. 4.5 mm / 0.17 in
- d2 - max. 8 mm / 0.31 in

B (EU/UK wall box): Contersunk head screw:

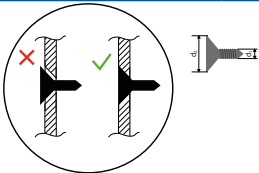
- d1 - max. 3 mm / 0.11 in
- d2 - max. 6 mm / 0.23 in

C: Contersunk head screw:

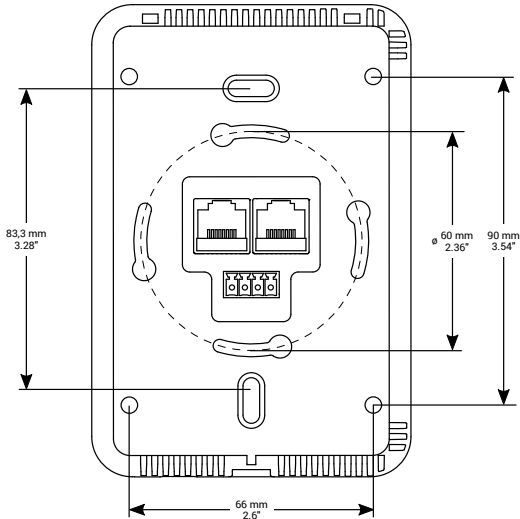
- d1 - max. 4.5 mm / 0.17 in
- d2 - max. 8 mm / 0.31 in

Recommended
screwdriver type: PZ1

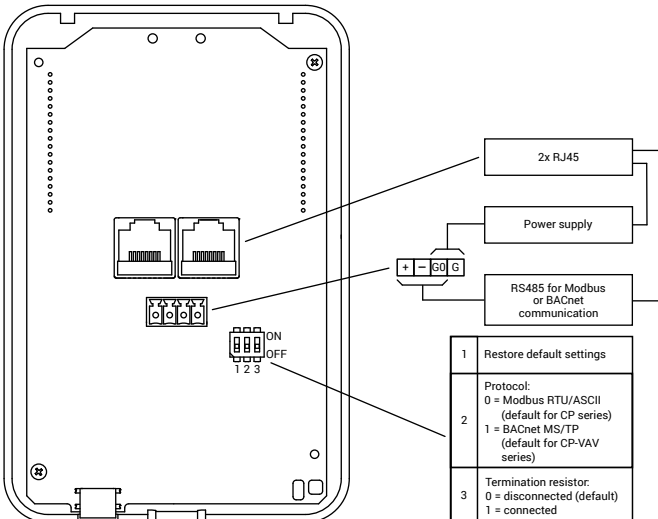
Screw tightening
torque: 0,3 Nm



MOUNTING FRAME

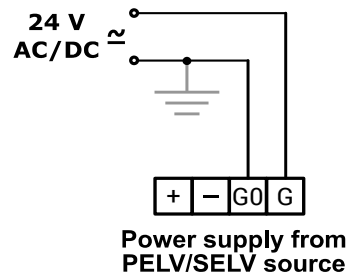
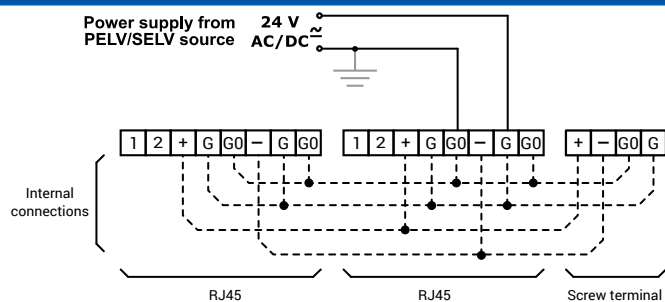


REAR VIEW

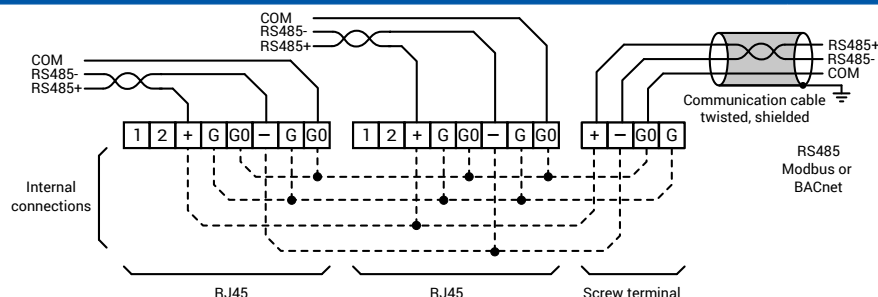


The performances stated in this sheet can be modified without any prior notice.

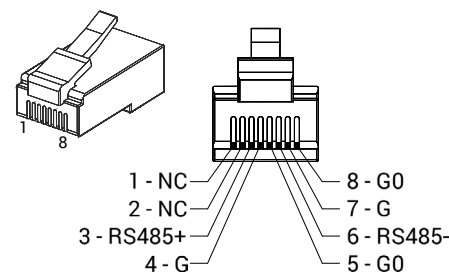
POWER SUPPLY



COMMUNICATION



RJ45 PIN DESCRIPTION



MOUNTING INSTRUCTIONS

Choose a wall-mount location at a height of 1.2-1.5 m above the floor and at least 50 cm from the adjacent external wall. Place the device in an area with good ventilation and average temperature, where it will respond to changes in room conditions. Do not place the Control Point unit in areas where it may be affected by:

- direct sunlight;
- draughts or dead zones behind doors;
- heat radiation from appliances;
- concealed pipes or chimneys;
- exterior walls or unheated/uncooled areas.

FCC COMPLIANCE NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient or relocate the receiving antenna;
- increase the separation between the equipment and receiver;
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected;
- consult the dealer or an experienced radio/TV technician for help.

SAFETY COMPLIANCE NOTE

UL compliant ratings:

- Power supply: 24 V DC, max. 0.9 W or 24 V AC, max. 2.5 VA, provided by limited energy <15W SELV/Class 2 power source;
- Analog outputs G: 24 V AC/DC, SELV/Class 2, P<15 W, resistive load.

UL compliant notes:

- Degree of protection provided by enclosure: Type 1 enclosure;
- Purpose of control: Operating Control;
- Construction of control: Independently Mounted Control;
- Method of mounting control:
 - Wall mounting;
 - Flush wall box 60 mm;
 - US 1-gang electrical outlet box;
- Type of action: Type 1 Action;
- Pollution degree: 2;
- Impulse voltage: 500 V;
- For screw terminals solid or stranded wire are allowed with minimum required torque value of 1.7 pound inch;
- The maximum length of cables connected directly to terminals of the product is 10 m (power supply lines, input/output and communication lines).

INSTALLATION GUIDELINES



Please read the instruction before use or operating the device. In case of any questions after reading this document, please contact the iSMA CONTROLLO Support Team (support@ismacontrolli.com).



- Before wiring or removing/mounting the product, make sure to turn the power off. Failure to do so might cause an electric shock.
- Improper wiring of the product can damage it and lead to other hazards. Make sure that the product has been correctly wired before turning the power on.
- Do not touch electrically charged parts such as power terminals. Doing so might cause an electric shock.

- Do not disassemble the product. Doing so might cause an electric shock or faulty operation.



- Use the product only within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere, etc.). Failure to do so might cause a fire or faulty operation.
- Firmly tighten the wires to the terminal. Failure to do so might cause a fire.

- Avoid installing the product in close proximity to high-power electrical devices and cables, inductive loads, and switching devices. Proximity of such objects may cause an uncontrolled interference, resulting in an instable operation of the product.
- Proper arrangement of the power and signal cabling affects the operation of the entire control system. Avoid laying the power and signal wiring in parallel cable trays. It can cause interferences in monitored and control signals.
- It is recommended to power controllers/modules with AC/DC power suppliers. They provide better and more stable insulation for devices compared to AC/AC transformer systems, which transmit disturbances and transient phenomena like surges and bursts to devices. They also isolate products from inductive phenomena from other transformers and loads.
- Power supply systems for the product should be protected by external devices limiting overvoltage and effects of lightning discharges.
- Avoid powering the product and its controlled/monitored devices, especially high power and inductive loads, from a single power source. Powering devices from a single power source causes a risk of introducing disturbances from the loads to the control devices.
- If an AC/AC transformer is used to supply control devices, limited energy <15 VA Class 2 transformer must be used to avoid unwanted inductive effects, which are dangerous for devices.
- Long monitoring and control lines may cause loops in connection with the shared power supply, causing disturbances in the operation of devices, including external communication. It is recommended to use galvanic separators.
- To protect signal and communication lines against external electromagnetic interferences, use properly grounded shielded cables and ferrite beads.
- Switching the digital output relays of large (exceeding specification) inductive loads can cause interference pulses to the electronics installed inside the product. Therefore, it is recommended to use external relays/contactors, etc. to switch such loads. The use of controllers with triac outputs also limits similar overvoltage phenomena.
- Many cases of disturbances and overvoltage in control systems are generated by switched, inductive loads supplied by alternating mains voltage (AC 120/230 V). If they do not have appropriate built-in noise reduction circuits, it is recommended to use external circuits such as snubbers, varistors, or protection diodes to limit these effects.



Electrical installation of this product must be done in accordance with national wiring codes and conform to local regulations.