



Controls by Monodraught

HTM Window Override Controller (HU002A)

General Description

The HTM wall controller is designed to be mounted within a zone containing up to two HTM units. Via the wall controller, the user has the ability to control the fan speed as well as turn off the fan. Should the air quality fall below a set point the controller will notify the user through open window indicator, to indicate that the windows should be opened to aid ventilation.

Features

- Room temperature and air quality (CO₂) sensors
- ABS Moulded back box
- RJ45 Connection
- Fan speed control
- Open window indicator
- 24V DC Power supplied by the system via CAT5 cable

Operation

The wall mounted controller houses two sensors which monitor the room's temperature and CO₂ level. If the CO₂ level rises above 900 ppm, the HTM will operate in natural ventilation mode by opening the external and recirculation dampers, allowing fresh air to enter the room through the unit. If the CO₂ levels rise above 1000 ppm, the wall controller will indicate to the user that the windows should be opened to aid ventilation. If the CO₂ levels rise above 1100 ppm, the system will operate in boost mode by running the fan. If the external temperature falls below 15°C, the unit will operate in mixed mode utilising the fan to mix fresh external air and warm room air to create fresh tempered air.



Functionality



1. **Boost mode:** Will provide a boosted level of ventilation via the HTM low energy fan.
2. **Auto mode:** Allows the HTM system to operate within its 3 automatic modes.
3. **Off mode:** Closes the high level exhaust damper and stops the fan from operating.
4. **LED:** To notify the user when it is necessary to open windows.
5. Temperature and air quality (CO₂) sensor

Technical Specifications

Material

- Enclosure moulded in flame retardant PC/ABS

Operating Conditions

- 10 - 40°C
- 10 - 80% RH non-condensing

Mounting

- To be mounted 1.2 m - 2.1 m from floor out of direct sunlight

Dimensions

- 10 mm x 150 mm x 40 mm

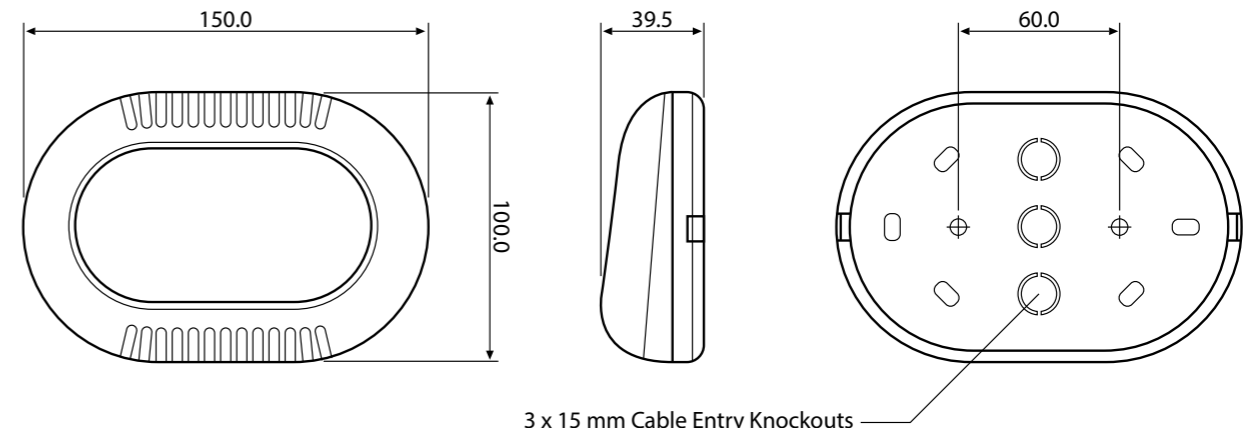
Terminals

- RJ45 Terminated CAT5 cable

Power Supply

- 24V DC @ 15mA nominal

Dimensions

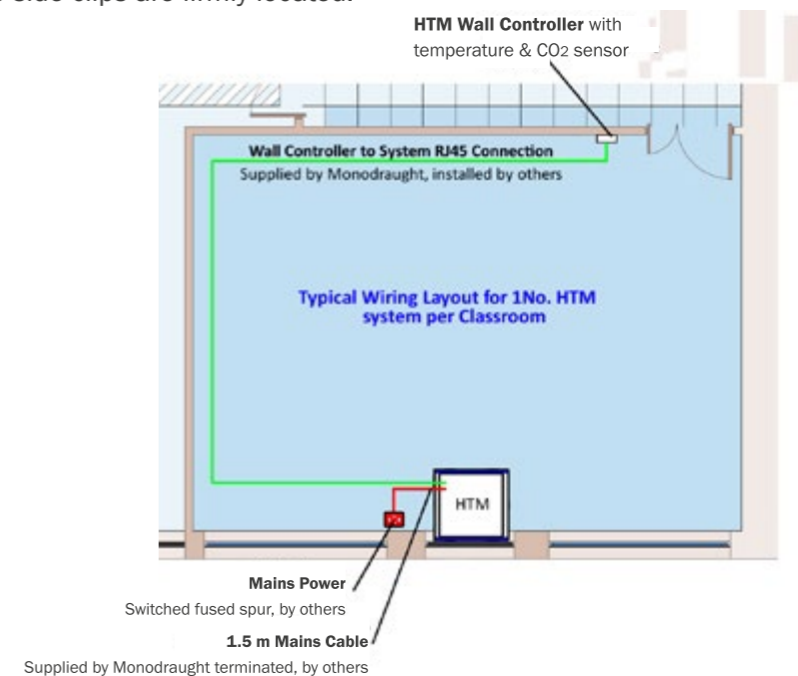



Installation


1. Separate the two piece case by pressing the side clips in and put the front cover to one side.
2. Screw the base plate to the wall ensuring that the TOP arrow is at the top.
3. Secure to the wall using a minimum of two fixings.
4. Use the two screws supplied with the correct wall plug for the type of wall construction, where the controller is being mounted.
5. The controller should be mounted between 1.2 m and 2.1 m above floor level.
6. The controllers contain a temperature sensor and care should be taken with the location to ensure that they are not mounted above a heat source, in direct sunlight or in an area where draughts occur.
7. Connect the CAT5 cable to the PCB located within the front cover via the RJ45 connection ensuring the cable is located in a way that allows the case to easily close, the cable can be routed through the back of the case.
8. Carefully place the front cover onto the base plate ensuring all tabs line up, no cabling is caught and the two side clips are firmly located.


Self-Test Mode

The wall controller also has the ability to perform a self-test operation. This means it is able to run a diagnostic test on the HTM to search for any faults within the system. If any faults are found they will be indicated via the LEDs.



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