

VeroVent –VV-01DD Natural Ventilation Controller



The **VV-01-DD** natural ventilation controller is designed to provide environmentally friendly "free" cooling to your environment where available. The controller can be set to start and stop at specific times during the day, and requires little or no operator input to function under normal conditions. The controller monitors the temperature and carbon dioxide concentrations in the space and adjusts the amount of ventilation accordingly.

Setting Parameters

The **VV-01-DD** has a three level passcode protected access system. The three levels are:

Level 1 = Observer mode = View sensor readings and set-point

Level 2 = Supervisor mode = As level 1 + set-point adjustment
(1111)

Level 3 = Engineer mode = Full access to all points

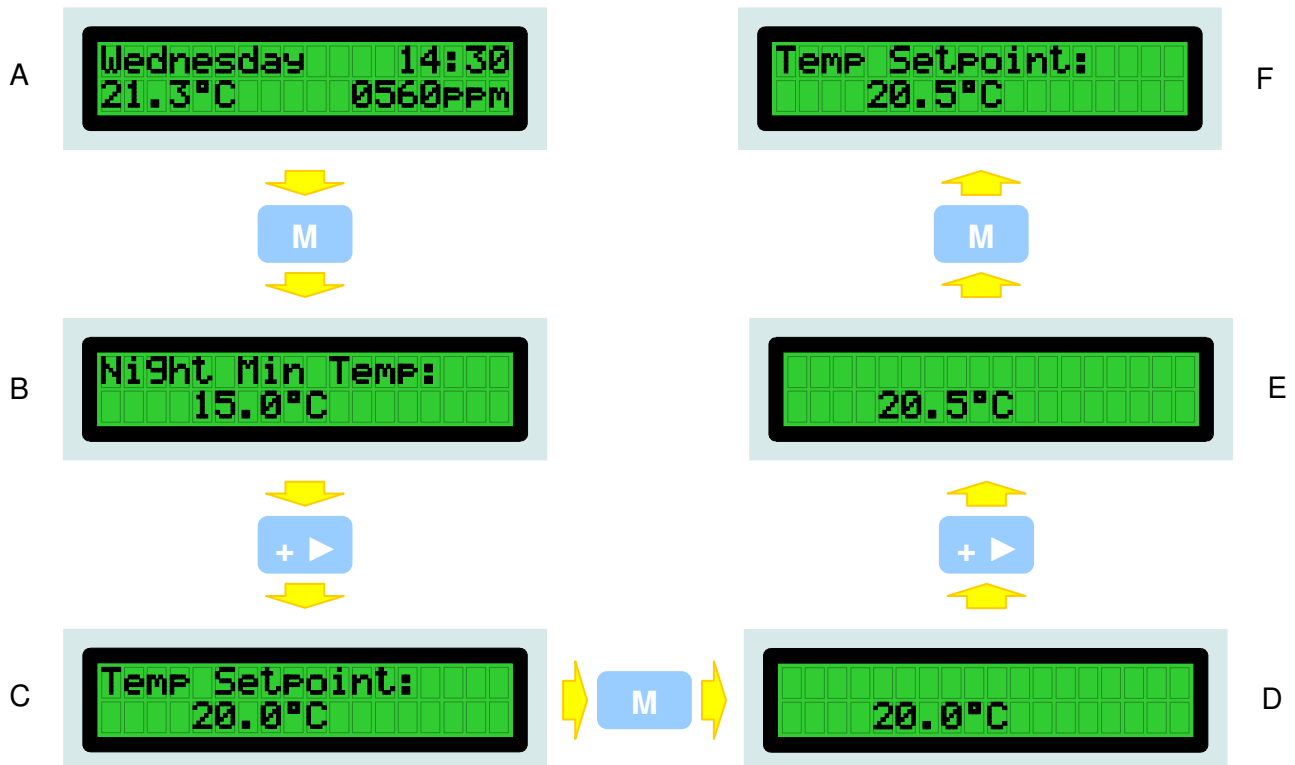
To change the current access level, press and hold **M**. This will bring up the access code entry display.



The access code has four digits. The next digit can be selected by pressing **M**.

The digit can be changed using the **< -** and **+ >** keys.

The user is returned to the previous menu by pressing and holding **M**.



At power up, or after 30 seconds of inactivity, the display returns to the status screen (A). This displays the day, time, current room temperature and the concentration of carbon dioxide present in the room.

The user can move to the parameter viewing mode (B) by pressing **M**.

Once in this mode, the parameters can be scrolled through (C) using **< -** and **+ >**.

The parameters can be altered by pressing **M** to move to the parameter editing mode (D).

Once in this mode, the value of the parameter can be changed (E) with **< -** and **+ >**.

The new value is saved and the display returned to the parameter viewing mode (F) by pressing **M**.

At any time, the damper can be fully opened for 15 mins for full ventilation by pressing the **PURGE** pad. Pressing the pad a second time returns control to the internal processor.

Parameter List (Supervisor Level)

DAMPER 1 POSN *(only on models without CO₂ monitoring)*

The feedback signal from the damper, expressed as a percentage 0%-100%

TIME

The day and current system time.

Time	-	0:00 => 23:59
Day	-	Monday => Sunday

NIGHT MIN TEMP

The damper will close fully if the temperature falls below this setting outside the normal hours of operation. If the temperature rises by more than 2°C above this setting, the damper will return to its previous position.

TEMP SETPOINT

The room temperature setpoint for zone 1 / zone 2

CO₂ SETPOINT 1 *(only on models with CO₂ monitoring)*

Carbon dioxide setpoint in parts per million

OUTPUT 1

The output signal to the damper expressed as a percentage


ROOM TEMP

The average room temperature in degrees celcius





LED Indication

The **VV-01-DD** unit has five status indication LEDs. These change colour to allow instant diagnosis of the system state.




POWER ON:

-  Lights up when power is applied to **VV-01-DD** unit.



SYSTEM CONDITION:

-  System is in "day" mode
-  System is in "night" mode
-  System purging (dampers 100% open)
-  Fire alarm activated





LED A:

-  Room temperature within acceptable limits
-  Room temperature low warning
-  Room temperature high warning

LED B:

-  CO₂ level within acceptable limits
-  CO₂ level high warning

LED C:

-  **VV-01-DD** unit is in "Observer" mode
 -  **VV-01-DD** unit is in "Supervisor" mode
 -  **VV-01-DD** unit is in "Engineer" mode
 -  Power fail indication: the power to the unit has recently been removed. The internal clock does not have a battery backup, and should be checked. This LED will stop flashing once the system time has been set.
- (any colour)

FOR FURTHER TECHNICAL ASSISTANCE, PLEASE CONTACT US BY

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