

MB08 WIRING & SETUP GUIDE

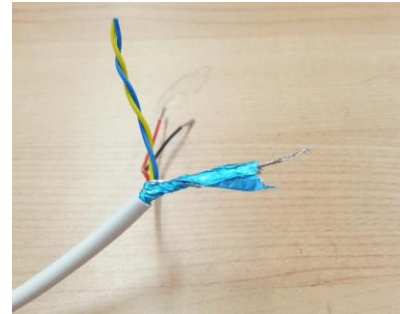
The MB08 temperature control panel will give you both manual and automatic control of your windows.

The automatic setting allows you to set the temperature level that you would like to maintain in the room and the panel will open and close the windows the correct distance throughout the day, if it rains the windows will close automatically.

In manual you have full control of the opening distance of your windows and you can either program the panel to close the windows when it rains or to stay open. This function is useful if you have roof vents where you would always want them to close when it rains.

1. Wiring

- a. This panel required a minimum 47mm deep backbox
- b. Wire from a 5amp fuse spur to the control panel
- c. Wire from the control panel to the actuators in 3 core & earth
- d. The sensors have a foil-screened alarm cable flying lead that should not be extended, this will affect the operation of the panel.
- e. The sensors should not be run in the same trunking as the mains cable going to the actuators.
- f. Flying lead cores are Black, Red, Yellow, Blue and Screen
- g. Follow rain sensor wiring below:
- h. **Red** → **RAIN** directly below P/E (panel earth).
- i. **Black** → **RAIN** directly below previous terminal.
- j. **Screen** → **SCN** directly below previous terminal.
- k. **Green + Yellow** are not used.
- l. Follow temperature sensor wiring below:
- m. **Screen** → **SCN** as per rain sensor.
- n. **Yellow** → **T/SEN** directly below SCN (screen).
- o. **Blue** → **T/SEN** directly below previous terminal.
- p. **Red + Black** are not used.



2. Sensor Positioning

Note - Custom length temperature & rain sensors are available to order.

- a. Temperature: Note - the standard MB08 has a remote heat sensor approx... 2.5mtrs long, this will allow you to fit the control panel in convenient position.
 - Positioning the temperature sensor – Try to follow the same principle as positioning a thermostat:
 - Approx. 1400 up from the floor
 - Away from the corner of a room
 - Out of direct sunlight
 - Not above a radiator or heat source
 - Avoid cold drafty areas



- b. Rain Sensor: Note - the standard MB08 has a rain sensor approx... 7mtrs long.

- Positioning the rain sensor
 - Position on the roof of the building - Away from gutters
 - The sensor should be on a 30 to 40 degree pitch
 - Keep the sensor as exposed to the weather as possible, avoid sheltered areas
 - You must install a drip loop to prevent rain water or moister traveling along the cable and into the building.



3. Panel Set Up

This panel is pre-set for Topp ACK4 actuators set to the maximum 400mm opening distance. You can configure this panel to operate various models (see below)

- Initial Stages

- Power up the unit and press the M/A button to select manual
- Open and close the vent. The control panel LCD will indicate the vent position with a black box that will move from left to right from “C” (closed) to “0” (open)



- Fully close the vent ensuring the black box on the LCD is all the way to the left “C” (closed) position, do this by holding the close button for an extra 5 seconds

- Engineers Menu Settings

- Turn off power at the fuse spur
- Hold the centre button (M/A) down while turning power on at the fuse spur (You will now be in the engineers menu)

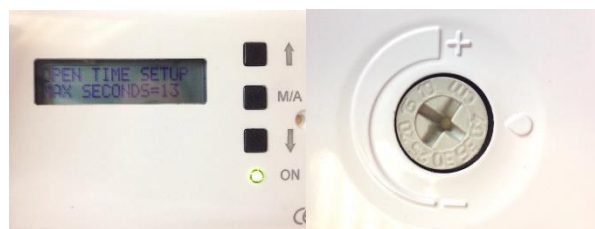
1. Actuator Opening Time

- Actuator run times vary by model and manufacture. This function allows you to set up the control panel to suit the actuator and the opening distance you may have restricted it to.

For example:

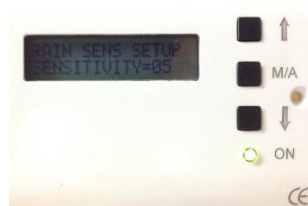
The ACK4 opens to 400mm in 13 seconds, the control panel will divide this time by 4 giving you 4 x 100mm increments of opening. If you limit the actuator opening distance down to 200mm using the actuators limit switch you will need to adjust the open time set up down to 6 seconds, this will give you 4 x 50mm increments of opening.

- To set the opening time use the up and down buttons.



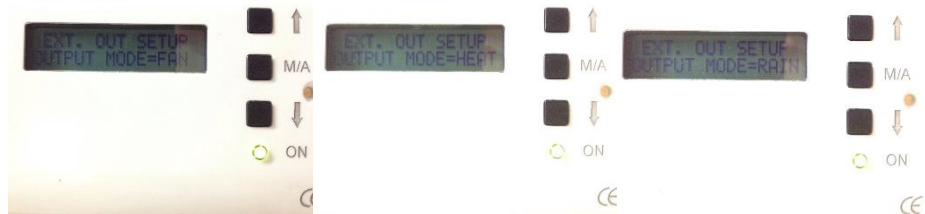
2. Rain Sensitivity

- This should be left at the factory default – “05”



3. Ext Output

- For standard applications this should be left at the factory default – “FAN”



4. Calibrate Setup Temperature (This allows you adjust the temperature displayed on the panel to the actual temperature in the room)

- To adjust the temperature use the up and down buttons.



5. Manual Rain Override Option

- If you would like the rain sensor to override and close the windows when in manual as well as auto control settings set to “RAIN” (recommended)
- If you would full manual control of your windows when in manual control setting set to “NONE”
- To set the opening time use the up and down buttons.



WIRING DIAGRAM/PHOTOS

