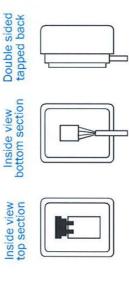
## Rain Sensor Fitting Instructions.

The position of the rain sensor should be outside on the glass roof or glazing bar. either way round position. Run the cable back to the controller and secure cable Clean the surface and remove the double sided tape cover on the back of the sensor and plug into the lid top where the gold pins stand up. The plug will fit Make sure the cable exists downwards from the box. Take the top of the rain bottom half of the box. (Press down firmly inside the box). with clips. See diag for board attachment of cable

# Replacement Instructions For Worn Out Sensor Top.

The box is a standard two gang back box and measures 132mm x 71mm x 36mm back from the front of the wall by 10mm, as shown on the drawing, to allow room Hold the bottom of the rain sensor with for finger and thumb and pull the top off, deep. When fitting the back box into the wall it is most important to set the box remove the plug and plug in the new top, fit the new top to the bottom. for the internal panel.

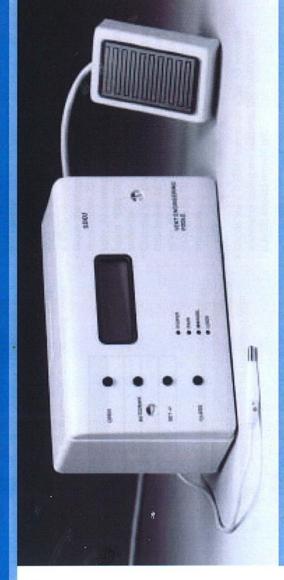


132mm x 71mm x 36mm deep. panel in brass Plastic seal if Front control front panel is broken. or plastic

The box is a standard two gang Steel back box fitted into wall. back box and measures

set the box back from the front of the wall by 10mm, as shown the wall it is most important to When fitting the back box into on the drawing, to allow room for the internal panel.

# Thermostatic and Rain Controllers



### Auto mode

automatically in this mode. The preset high/low temperature settings and any rain activity, The open/close functions are controlled commands the controller.

### Manual mode

and rain activity are ignored. You have total control The open/close functions are controlled manually in this mode. The high/low temperature settings of the open/close functions.

## Lock mode (100J)

'auto' mode. The lock light lights up when activated. 'manual' mode it is possible to view both open and close temperature settings as when 'locked' in the Lock is activated 30 seconds after the last button has been pressed. When the 'lock' is activated in

maximum of 5 seconds is allowed for each button Unlock button sequence = buttons 2, 1, 3, 4. A

exceeded at any point, the code will need to be reentered from the start. Pressing a wrong button press in the unlocking sequence. If this time is will also need re-entering the code from start.

## Lock mode (100DM)

supplied magnet over the printed circle between the second and third operating button situated on the face plate. The lock light lights up when activated. Lock is activated and deactivated by swiping the

### Rain sensor

placed outside at 45°, away from \walls etc. This The rain sensor has a gold plated PCB which is needs to be accessible for regular cleaning to maintain performance.

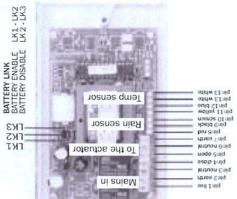
## Temperature sensor

This chrome probe is placed near or under the 100 series controller.

### Contents

- 100 series type controller face plate and circuit board
  - Rain sensor and 12m (approx) cable 1 Temperature sensor and cable
- Learning Surface mount back box or flush mount back box

# Thermostatic and Rain Controllers



Descript	Live	Earth	Neutral	Actuator	Actuator (	Actuator r	Earth	Descript	Rain sens	Rain sens	Rain cone
Pin	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin	Pin 8	Pin 9	Din 10
BATTERY LINK BATTERY ENABLE LK1-LK2		Account of the Control of the Contro			Jose	ser	ewb		- 01 - 01	I Sering Tampi Tami Tampi Tampi Tampi Tampi Tampi Tampi Tampi Tampi Tampi Tamp	I niq niq I niq

Yellow/green

Blue

neutral



Pin	Description	Cable colou
Pin 8	Rain sensor heator	Red
Pin 9	Rain sensor heator	Black
Pin 10	Pin 10 Rain sensor screen	No insulation
Pin 11	Pin 11 Rain sensor input A	Yellow
Pin 12	Pin 12 Rain sensor input B	Blue
Pin 13	Temperature sensor input	White
Pin 14	Pin 14 Temperature sensor input	White

PowerLED1Power indicatorRainLED2Rain detectedAuto/manualLED3Manual mode activeLockLED4'Lock' mode active	Face plate	PCB identification	Description
manual LED3	Power	LED1	Power indicator
	Rain	LED2	Rain detected
LED4	Auto/manual	LED3	Manual mode activ
	Lock	LED4	'Lock' mode active

ace plate lentification	PCB identification	Locked	Unlocked	Raining	Auto mode	Manual mod
ower	LED1	On	On	On	On	00
ain	LED2	×	×	On	×	×
uto/manual	LED3	×	×	×	Off	uO
ock	LED4	On	Off	×	×	×

Face plate identification	PCB identification	Description
Open	SW1	View/set open temperature and ma
Auto/man	SW2	Toggle between automatic and mar
Set+/-	SW3	Set open or close temperatures
Close	SW4	View/set close temperature and ma

## Lock Mode Test (100J)

Cable color

Brown

Yellow/green

Varies Varies

Blue

The unit is in 'lock' mode ('lock' LED4 illuminated) at power on. The 'lock' function will activate in either pressed on the unit for approximately 30 seconds. auto or manual modes if no buttons have been

be entered. Press the buttons in the following order: To unlock the controller, the unlock sequence must

Button number	SW2	SW1	SW3	SW4
Visual	Auto/man	Open	Set	Close

pressed exceeds this, or the wrong button is pressed, Approximately 5 seconds is allowed for each button then the sequence will have to be re-entered from press. If the time from the previous button being the start.

## Lock Mode Test (100DM)

The 'lock' function will activate or deactivate in either auto or manual modes if the magnet is swiped once over the face plate between the 2nd and 3rd button. ('lock' LED4 illuminates)

disabled. The 'OPEN' and 'CLOSE' switches can be used to view temperature settings, but not The SET+/-and AUTO/MAN switches are then

Press 'OPEN' SW1 to view opening temperature. Press 'CLOSE' SW4 to view closing temperature.

### Unlock

When successfully unlocked, the 'lock' [LED4] will be extinguished and all buttons will be functional.

## Auto/Manual Modes

'AUTO/MAN' [LED3] turns on in manual mode and off Check that the unit toggles between automatic and manual modes by pressing AUTO/MAN' [SW2]. The n automatic.

### Automatic Mode

ual modes

inual open

anual close

 Enter automatic mode by pressing the 'AUTO/MAN' (SW2) button so that the 'AUTO/MAN' [LED3] is off.

- Set 'OPEN' temperature by pressing and holding 'SET +/-' button to increment the temperature the 'OPEN' button [SW1] while pressing the setting. Set the temperature to 22°C.
- Set 'CLOSE' temperature by pressing and holding 'SET +/-' button to increment the temperature the 'CLOSE' button [SW4] while pressing the setting. Set the temperature to 18°C.
- rises above 22°C. The actuator will begin opening · Warm the temperature probe so that temperature 'open' relay [RL2] will be cut after a further 30 upto 30 seconds after pressing. Power to the seconds.
- falls below 18°C. The actuator will begin closing Cool the temperature probe so that temperature close' relay [RL1] will be cut after a further 30 upto 30 seconds after pressing. Power to the seconds.

### 1001

 Check 'lock' [LED4] comes on after 30 seconds without pressing any buttons. The 'AUTO/MAN' [LED3] should remain off.

### Manual Mode

- (SW2) button so that the 'AUTO/MAN' [LED3] is on. Enter manual mode by pressing the 'AUTO/MAN'
  - Press and hold 'OPEN' button [SW1] to fully open the actuator.
- Press and hold 'CLOSE' button [SW4] to fully close the actuator.

 Check 'lock' [LED4] comes on after 30 seconds without pressing any buttons. The 'AUTO/MAN' [LED3] should remain on.

# Rain Sensor Test (Automatic Mode Only)

- Enter automatic mode by pressing the 'AUTO/MAN' [SW2] button so that the 'AUTO/MAN' [LED3] is off
  - Warm the temperature probe so that temperature rises above the open temperature (e.g. 22°C) so the actuator opens
- Spray water onto the rain sensor surface.
- actuator will begin to close upto 60 seconds later. The 'RAIN' led [LED2] will illuminate and the
- Leave the unit for a few minutes, with water on the with a cloth and after approximately 30 seconds sensor surface. Then dry off the sensor surface the 'RAIN' led [LED2] should turn off.