Wet and Dry Bulb.
480 1000 042/01

Wet & Dry Bulb
Temperature sensor
480 100 042

To Temperature Sensor
(25 m max)
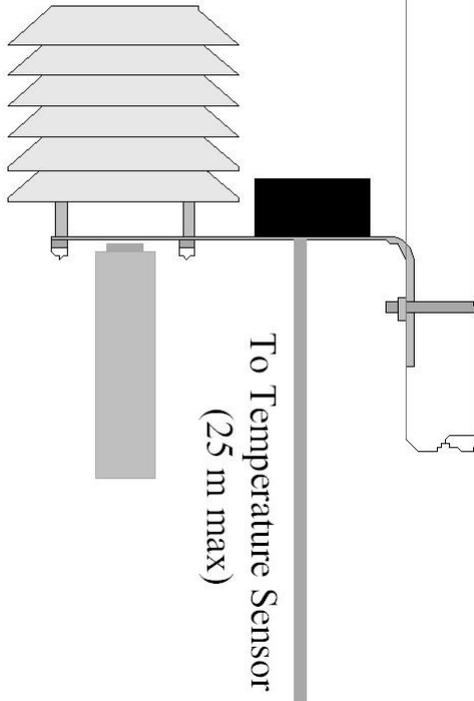
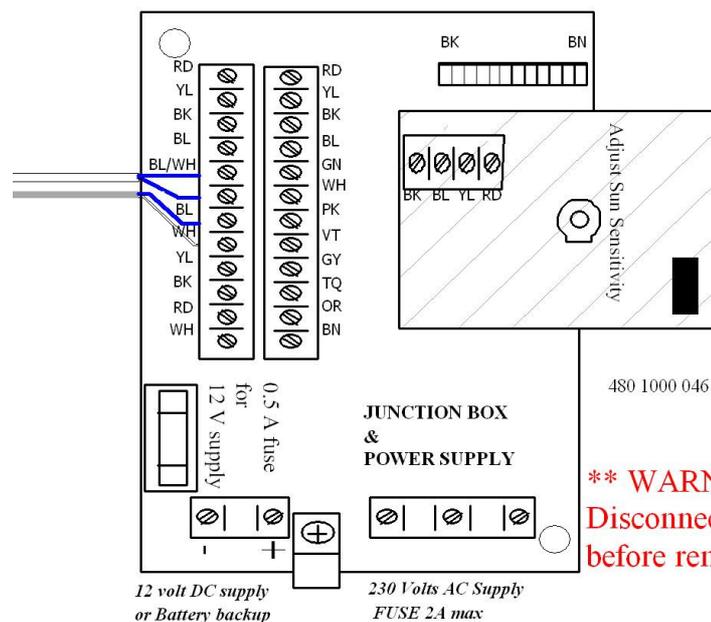Wall or mast mount away from heater or air conditioner outlets.
Avoid mounting over flat roofs which may radiate heat during sunny periods.
Ensure easy access to allow bottle to be topped up with distilled water when required.

To Wet and Dry bulb.

DRY

WET

RD
YL
BK
BL
BL/WH
BL
WH
YL
BK
RD
WH

RD
YL
BK
BL
GN
WH
PK
VT
GY
TQ
OR
BN

BK   BN

Adjust Sun Sensitivity

BK   BL   YL   RD

480 1000 046

0.5 A fuse
for
12 V supply

JUNCTION BOX
&
POWER SUPPLY

** WARNING **
Disconnect mains supply
before removing lid

12 volt DC supply
or Battery backup

230 Volts AC Supply
FUSE 2A max

Installation Instructions

This unit can be wall or mast mounted. It should be fitted where there is free movement of air and away from heater /ventilation outlets, chimneys, warm walls and flat roofs etc. The length of the cable affects the calibration and therefore should not, if possible, be shortened or lengthened.
The cable is connected in the junction box with the white cable connected to the AIR TEMP terminals and the grey to the AUX TEMP terminals as per the drawing.

Operating Instructions

Outside Temperature
The LCD temperature display shows the outside temperature at the roof top sensor. Celsius or Fahrenheit display may be selected by pressing the lowest of the buttons on the left side of the cabinet.

Humidity and Dew Point
Celsius readings should be selected by pressing the bottom button. Readings of both the DRY & WET bulb (Aux Temperature) temperatures are logged. These figures are then compared with the table supplied to give values of Humidity and Dew Point.

Maintenance

1) Water Bottle – ensure the wick is kept submerged in water at all times, ensure distilled water is used at all times.

2) Replacing the Wick – This can be done by un-screwing the water bottle and with drawing both the wick and plastic tube from the sensor. Remove the sensor's two top dome nuts and lift the top section of screen. The new wick should then be inserted into the tube before being re-inserted into the sensor. Insert both tube and wick through the hole and push it up to the top of the sensor. Ensure the wick and plastic tube are then pushed over the temperature probe labelled "WET" which is an interference fit. Re-fit the top section of screen and re-fit the water bottle.

Troubleshooting Guide.

Temperature display flashing LLL.

This indicates that the temperature probe is not connected to the instrument. Check that the *green and white* wires from the wind sensor are correctly connected to the appropriate terminals.

Temperature display locked on a fixed temperature.

The display may have locked up during installation. Other indications are that none of the buttons located at the side of the instrument will have any effect on the display. This can sometimes happen and can be corrected as follows:-

Remove the Display from the wall (if wall mounted), to the left of the connector there is a small slide switch with two white buttons, slide these to the right to the *off* position. Leave for one minute, during which time the display(s) should go blank. Now slide the switches to the ON position (to the left). If this procedure fails to cure the problem, repeat the procedure once more, waiting a little longer before sliding the switches to the ON position.

Temperature reading inaccurate

If the temperature reading is only 1 or 2 degrees out then the display can be recalibrated as follows:-

Remove the display from the wall by lifting the unit and pulling forward.
At the back of the temperature display there is a small preset with a screw driver-slot visible beneath and to the left of the connector. Adjust this with a small screw-driver to give correct display.

If the cable to the Wind/Temperature has been extended, the accuracy of the temperature will be reduced, and although this can be adjusted as above, extremes of temperature may show other errors.

The AUX temperature display will require the back of the display to be removed for the preset to be accessed behind the AUX display.

If temperature reading is very inaccurate, showing HHH or LLL, check wiring to the junction box; - see installation instructions) and cable.

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