

Instromet Weather Systems Ltd

Stand Alone Sun Duration Sensor

Part number: 358 6000 001



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1) Introduction.

Thank you for purchasing your new Instromet Weather Systems Stand Alone Sun Duration sensor with display.

This unit's purpose is to supply the user with a record of the total duration of Sunshine hours recorded.

While the sensor is exposed to sun light the control box will emit a signal to the display every 36 seconds which equates to 100 counts per hour.

An LED within the control box signals when the sensor is transmitting.

The control box has a sensitivity adjustment via the black potentiometer on the PCB near to the lid switch.

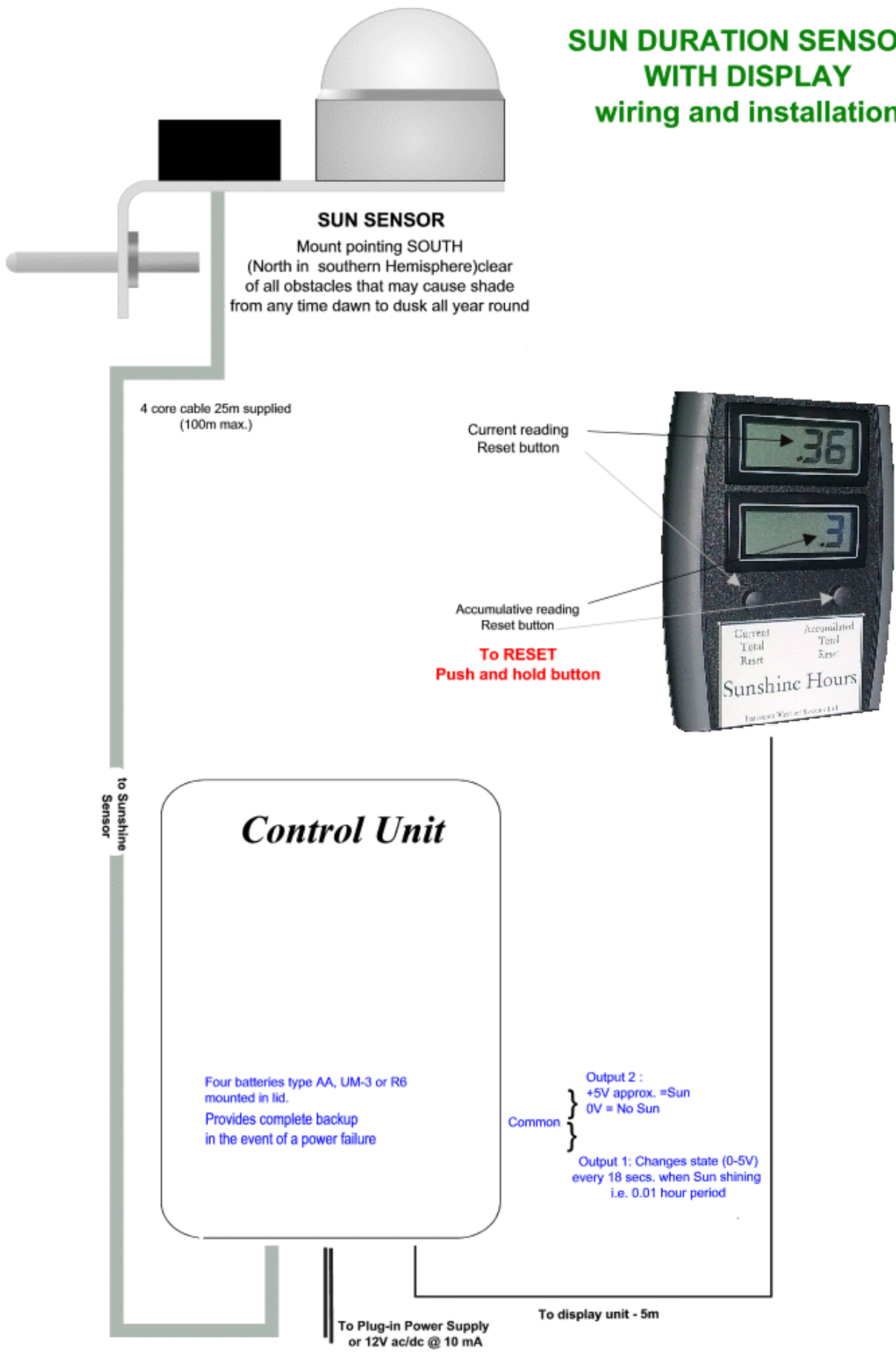
2) Package Contents.

Within the box you should find the following:

- 1 x Sun Sensor
- 25m of 4 core cable
- 1 x Control box
- 4 x AA Batteries
- 1 x AC Adaptor
- 1 x Display with 5m of cable
- 1 x Display wall mount kit

SUN DURATION SENSOR WITH DISPLAY

wiring and installation



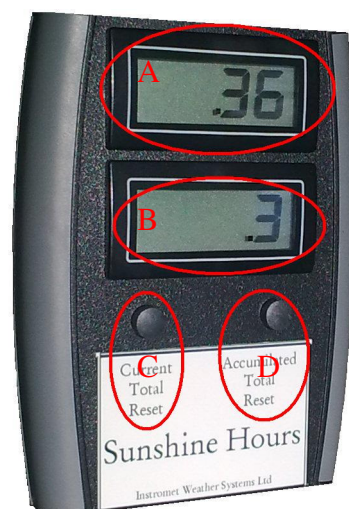
4) Display Features.

A – Current Sun reading

B – Accumulated Sun reading

C – Current Reading Reset

D – Accumulated Reading Reset



The Stand Alone display incorporates two LCD counters for Data storage. The uppermost display can store 99 hours of data before restarting at zero and the lower display can store 999 hours of data. The display has been designed in this way so that the upper display can store a daily reading and the lower display can be used for a monthly total reading.

The upper display will give a reading to the nearest one hundredth of an hour and the lower display will give a reading to the nearest tenth of an hour.

The display has two reset buttons on its fascia, one for each display. The left reset button is for the upper most display and will function at the briefest of touches. The other reset button for the lower display has to be held in place for a few seconds before it will reset the display to prevent accidental loss of the stored data.

The display can be either wall mounted via the enclosed kit or it can be mounted on a shelf:

Image A is of the installed wall mount kit which comprises of one wall bracket, two nylon screws, and two nylon spacers. Firstly pass the nylon screws through the bracket, then add the spacers before screwing them into the holes on the rear of the display.



Image B demonstrates the display being used as a shelf mounted unit. Slide the cover off the rear of the unit and insert the covers locking lug into the hole as shown. The cable can then exit either side as required.

5) Troubleshooting Guide.

Despite careful consideration when installing the unit if any strange phenonemoms occur then the below may help.

- 1) Display dead – Check the display cable is firmly connected to the main PCB within the control box. Also check that the AC Adaptor is firmly connected and that the power is switched on at the wall.
- 2) No count is being recorded on the display. – Check that the LED is illuminated within the control box, if not then no count will be shown.
- 3) The Sun is out but the LED in the control box is not on. – Check the 25m cable is firmly connected to both the sun sensor and control box.

If all else fails to get the unit functioning then please contact the Instromet service department for advice.

6) Contact.

The Instromet team can be contacted in the below ways:

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