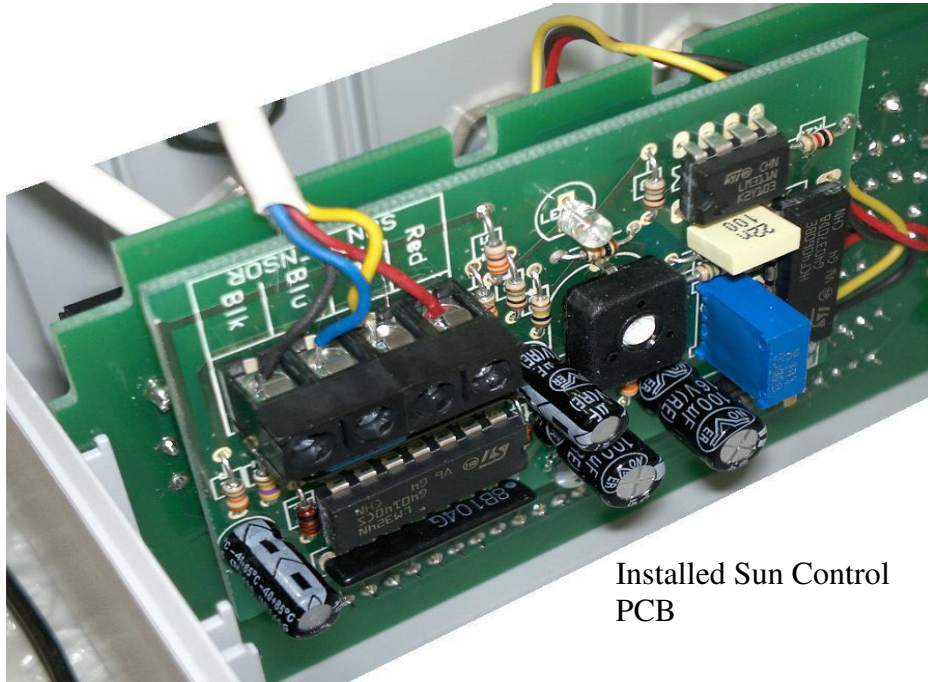


Sun Control PCB installation:

Once the sensor is installed the sun control PCB will need to be installed onto the Climatica junction box PCB. Insert the mounting pillar through the mounting point hole with the pillar on the solder side of the PCB and secure in place using the anti-slip washer and M3 half nut. The Sun Control PCB can then be secured to the PCB using the M3 anti-slip screw provided. See the below image for the correct PCB alignment.



Installed Sun Control PCB

Once the control PCB and sensor are connected, plug the control PCB into the Climatica junction box PCB using the three way plug. The sun data should appear automatically on the wall display all being well

Troubleshooting Guide:

Sunshine not being recorded

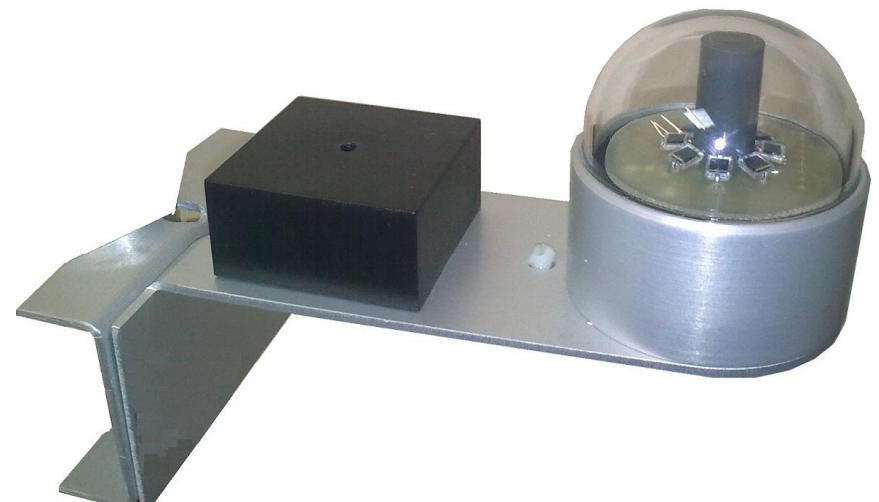
Check all connections to junction box.

Check daughter printed circuit board in junction box is correctly aligned at the connector

Sensitivity control incorrectly adjusted. Rotate the preset anti-clockwise to increase sensitivity.

Instromet Weather Systems Ltd

Sun Sensor Installation instructions



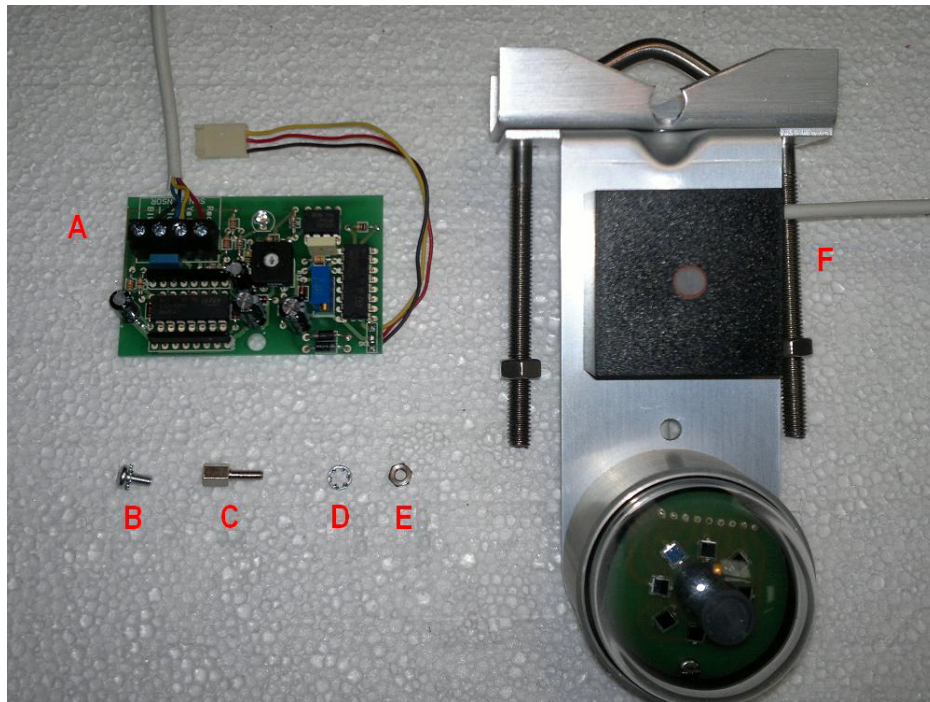
Introduction:

This document explains the installation of an Instromet Sun sensor to a Climatica weather station.

Kit Contents:

The Sun sensor kit contains the following items:

- 1 x Sun Sensor - F
- 1 x Sun Control PCB - A
- 1 x M3 Screw - B
- 1 x M3 nut - E
- 1 x anti slip washer - D
- 1 x 5mm spacer - C



Installation Instructions

Sunshine Sensor

The Sensor is designed to be mounted on a mast of between 25 & 50 mm diameter. The mast (usually the Wind Sensor mast) should be sited where trees, buildings etc. will not cause a shadow at any time of day throughout the year. It must be borne in mind that the sun rises and sets on the horizon which in mid-summer can be NE & NW (depending on latitude) and only rises to a low angle in mid-winter.

The Sensor is best mounted on the top of the Wind Sensor mast above any aerials etc and pointed approximately South (North in the Southern hemisphere) to avoid shadows.

The Sunshine Sensor functions by comparing sunlight to shadow, when the ratio exceeds a predetermined threshold, the sun is deemed to be shining and the counter will count up one every 36 seconds (0.01 hour).

Setting Threshold.

This is preset at the factory and should not normally require adjustment. However, should minor alterations be required due to the glass dome becoming dirty, the small preset on the daughter board can be adjusted.

