

WE710 Flat Surface Temperature Sensor Installation Guide

The WE710 temperature sensor measures the temperature of flat surfaces by measuring the temperature of the aluminum heatsink located on the face of the sensor. For best operation, this heatsink should be mounted flat against the surface to be measured. Mounting the sensor's heatsink over labels should be avoided if possible. A tube of silicone heat transfer compound is provided with the WE710 to ensure that the heatsink is in proper contact with the flat surface and that the heat from the surface is transferred efficiently to the sensor.

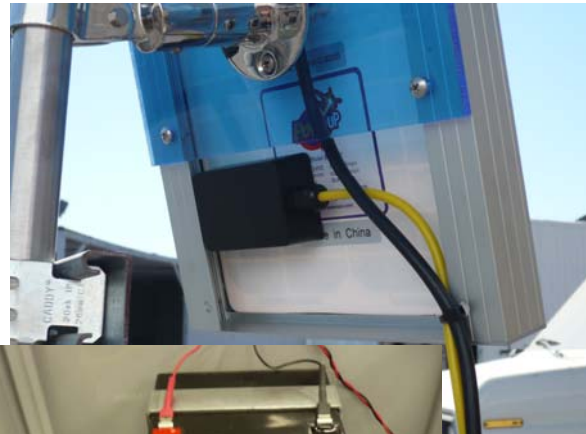
Apply an even coat of heat transfer compound to the surface of the sensor as shown, making sure that the compound is slightly higher than the double stick tape.



Use the alcohol pads provided with the sensor to thoroughly clean the surface that the sensor will be mounted to. Allow this surface to dry completely before mounting the sensor. Peel the backing from the adhesive tape and press the sensor firmly against the surface. Tie the sensor cable off in a way that does not pull on the sensor.

Specifications:

Sensor Type: 100ohm Platinum Class A RTD
Output: 4-20 mA
Range: -50°C to +85°C (-58°F to +185°F)
Accuracy: $\pm 0.5^\circ\text{F}$ or $\pm 0.25^\circ\text{C}$
Operating Voltage: 10-36 VDC
Current Draw: Same as sensor output current
Wiring: Red = Positive Supply, Black = Output
Warm-Up Time: 3 seconds minimum
Adhesive Type: 3M #4910 VHB Acrylic
Storage Temp: -55°C to +90°C
Sensing Surface: 0.75" x 1.5" Aluminum
Housing: 2.0W" x 1.1H" x 3.8L" ABS
Weight: 13oz with 25' of cable



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