METEOROLOGICAL INSTRUMENTS

INSTRUCTIONS

Heater 525 Series

MODEL HT-525

CE

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After sensor is mounted in its permanent location and following the local electrical codes for the particular location, connect to 120 VAC. The sensor has two heater, one is attached to the underside of the inner collector funnel and one is attached to the inside lower portion of the sensor housing. These two heaters are connected in series with a thermostat that is positioned near the tipping assembly. When the outside temperature drops to approximately 45°F, the thermostat will start to cycle. It will close for a few seconds at this temperature maintaining the inside temperature on the inside housing. As the temperature continues to drop the thermostat will remain on for longer periods of time and by the time the temperature outside is around -35°F, the thermostat will stay closed most of the time. Since electrical codes are different from location to location it is impossible to provide the necessary materials such as conduit, wire and accessories so we have provided a service box attached to the outside of the sensor which has conduit fitting knock-outs on all four sides. A cable gland has been included if codes allow cabling to be run without conduit, also three wire nuts have been provided.

Heater Specifications

Collector Heater	65 Watts
Housing Heater	116 Watts
Collector Heater	41.3 Volts AC
Housing Heater	73.7 Volts AC
Collector Heater	26.2 Ohms
Housing Heater	46.8 Ohms



Total Amperage when both heater are wired in series: 1.65 Amps Max.

Connections:

Green	Case Ground
White	Neutral
Black	120 VAC

Be Sure to remove Debris screen from top of collector during snow or icing conditions.