

## REMOTE TEMPERATURE SENSOR

Morningstar's *Remote Temperature Sensor (RTS)* provides very accurate battery charging in solar systems that experience temperature variations during the year. When used with the *ProStar™* controller, the RTS improves on-board temperature compensation by measuring the temperature at the battery. When used with the *TriStar™* controller (no on-board temperature compensation), the RTS adjusts charging for temperature changes at the battery.

### The RTS is recommended for:

- Use with the ProStar whenever the temperature at the battery will be more than 5°C (9°F) different than the temperature at the controller.
- Use with the TriStar for battery charging or diversion control modes (not for load control mode) whenever the temperature of the battery varies more than 5°C (9°F) during the year.

The RTS is installed on the ProStar by soldering two wires to the circuit board, and to the TriStar by inserting wires into labeled terminal blocks.

For maximum protection from harsh environments, the sensor is encapsulated in epoxy inside a power lug housing. The RTS is also protected from lightning surges and short circuits.

### Standard Features:

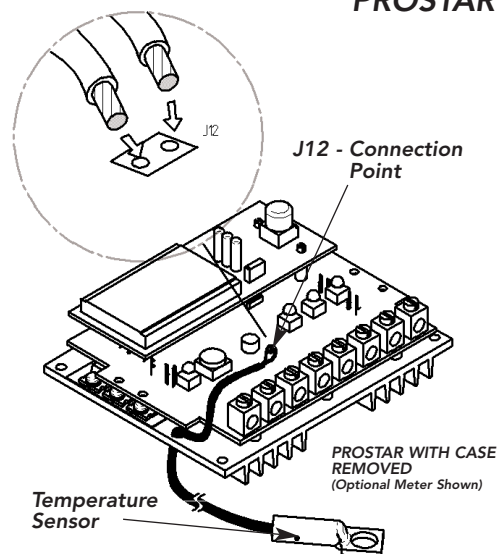
- Highly accurate:  $\pm 1.5^{\circ}\text{C}$  ( $2.7^{\circ}\text{F}$ )
- Cable length: 10 meters (33 feet)
- User may easily extend cable length up to 30 meters (100 feet) using standard cable
- Corrects for temperatures from  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ) to  $+80^{\circ}\text{C}$  ( $+176^{\circ}\text{F}$ )
- Wires are non-polarized

### Specifications:

- Power lug housing: 9.5 mm (3/8") screw hole
- 2-conductor copper cable with PVC jacket,  $0.34\text{mm}^2$  (#22 AWG)
- Cable rated UL CMR
- UL recognized component used with TriStar
- Passed CE test with ProStar and TriStar
- Sensor noise is filtered

**WARRANTY:** Five year warranty period. Contact Morningstar or your authorized distributor for complete terms.

### PROSTAR



### TRISTAR

