



## REMOTE TEMPERATURE SENSOR

Morningstar's **Remote Temperature Sensor (RTS)** provides improved battery charging in solar systems that experience temperature variations during the year. The RTS measures temperature at the battery and the controller uses this data for very accurate temperature compensation. Use of the RTS is recommended whenever the temperature at the battery will be more than 5°C (9°F) different than the temperature at the controller. The TriStar has no on-board temperature compensation; therefore the use of the RTS is required for temperature compensated charging. Other Morningstar controllers will default to an on-board temperature sensor if a RTS is not connected.

The RTS is compatible with the following Morningstar controllers:

- ProStar™ (soldering required)
- TriStar™
- SunKeeper™
- SunSaver Duo™
- SunSaver MPPT™
- TriStar MPPT™

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: +/- 1.5°C (2.7°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°C (-22°F) to +80°C (+176°F)
- Wires are non-polarized

### Specifications:

- Power lug housing: 9.5 mm (3/8") screw hole
- 2-conductor copper cable with PVC jacket, 0.34mm<sup>2</sup> (#22 AWG)
- Cable rated UL CMR
- UL recognized component when used with TriStar
- CE certified for use with all compatible Morningstar controllers
- Sensor noise is filtered

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



BayWa r.e. Solar Systems Inc.

4703-101 Street NW, T6E 5C6  
Edmonton, AB

Tel: +1 844 851 2390

solardistribution@baywa-re.ca



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