

### Technical Specifications

#### General Information

The T-RS-1263 Multi-Plate Radiation Shield protects the temperature sensor from the effects of error producing precipitation, solar radiation and other sources of radiated and reflective heat. The shield has ten uniquely profiled plates to permit excellent airflow around the sensor housing. These plates also have a steep profile to minimize moisture accumulation from precipitation and dew. The radiation shield plates are constructed from a specially formulated material for high reflectivity, low thermal conductivity, and maximum weather resistance. The T-RS-1263 Radiation Shield has a heavy duty stainless steel U-bolt for ease of mounting on any vertical pipe up to 2 inches in diameter.

*Note: The Platinum RTD Temperature Sensor and junction box shown (right) are sold separately. See the accessories information below for ordering part numbers and item detailed specifications.*



Typical radiation shield installation shown with a Richards high accuracy Platinum RTD temperature sensor and PPSH Weatherproof Junction Box for convenient sensor wiring.

#### Materials of Construction and Finish

- UV stabilized white thermoplastic plates
- Aluminum mounting bracket with white powder coated finish
- Stainless steel U-bolt clamp and hardware

#### Physical Dimensions and Weight

- 5.1" diameter x 10.2" height (13 cm x 26 cm)
- Weight 1.5 pounds (0.7 kg)
- Shipping weight 3 pounds (1.4 kg)

#### Mounting and Installation

Mounting bracket and U-bolt clamp will fit any vertical pipe from 1-2" in diameter (25-50 mm)

## Model # T-RS-1263 Radiation Shield Accessories

### Optional T-RS-1263 Temperature Sensor Radiation Shield Accessories

#### Richards High Accuracy Platinum RTD Temperature Sensor

- Temperature Sensor Ordering Model Number - 3E164-1-8-4-RB-LS
- Temperature Sensor Type - 100  $\Omega$  Platinum RTD, High accuracy, 3 Wire, Stainless Steel Sheath, Gold Plated Spade Lugs
- Temperature Sensor Accuracy - +/- .1°C at 0°C
- Temperature Sensor Operating Range - Minimum of -58°F, Maximum of 572°F (-50°C to 300°C)

#### Richards Temperature Sensor Weatherproof Junction Box

- Richards Ordering Model Number - PPSH
- Materials of Construction - White Polypropylene
- Weatherproof Junction Box Rating - NEMA 4X