

**MINCO Temptran™**  
**4-20 mA Current Transmitter**  
**TT411, TT412**

**INSTALLATION INSTRUCTIONS**

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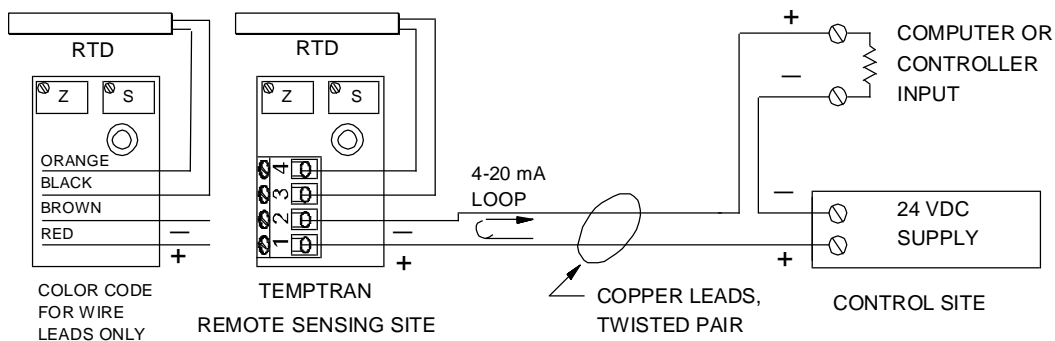
**Installation**

Ambient temperature of the Temptran should stay between -25 and 85°C (-13 and 185°F). Mount with a #6 machine or #8 self-tapping screws.

Connect the Temptran as shown, observing +/- polarity of the current loop. Maximum DC supply voltage = 35 VDC. The RTD connections have polarity, refer to drawing below for correct connection. For the RTD, good connections are a must; a few ohms of resistance in the connection can cause an error of several degrees.

The Temptran has been factory-calibrated for its marked temperature range or else for a specific RTD. Do not change its zero or span adjustments.

**Wiring Diagram**



**How It Works**

The Temptran converts an RTD's (resistance temperature detector's) resistance signal into a current proportional to the RTD's temperature. The current changes according to the range marked on the Temptran: 4mA at the lowest temperature of the range, rising to 20mA at the top of the range. The leads that supply power also carry the current signal.

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