

**MINCO Temptran™**  
**4-20 mA Current Transmitter**  
with wire leads or terminal block connections  
TT110, TT111, TT150, TT151, TT164, TT231, TT291, TT309, & TT700

**INSTALLATION INSTRUCTIONS**

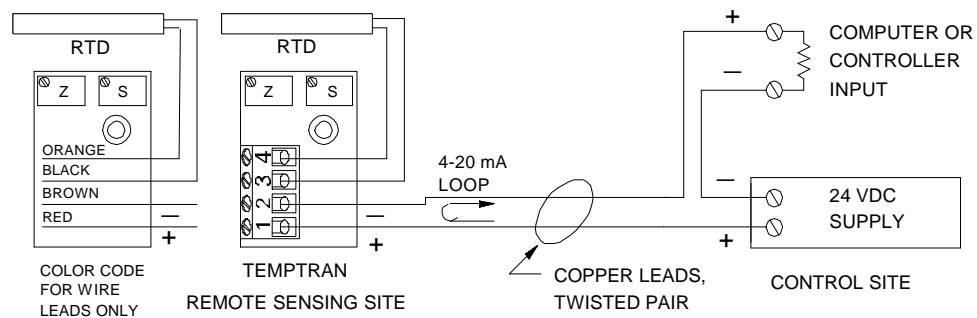
**Installation**

Ambient temperature of the Temptran should stay between 0 and 50 °C (32 and 122 °F). Mount near the RTD with a #6 machine or #8 self-tapping screw.

Connect the Temptran as shown, observing +/- polarity of the current loop. Maximum DC supply voltage = 35 VDC. The RTD connections have no polarity. 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 and 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: 4 mA at the lowest temperature of the range, rising to 20 mA at the top of the range. The leads that supply power also carry the current signal.

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