

TT829, TT839 INSTALLATION INSTRUCTIONS for MINCO Temptran™ 2-Wire Transmitter

Installation consists of mounting the transmitter and connecting it to power. The housing is mounted using two fold-out tabs on the bottom. Power and RTD wires are connected to the transmitter by 4 screw terminals located near the edge of the circuit board (Figure 1). The transmitter's power and RTD connections are designed for non-polar hook-up, so polarity is not important. Locate the transmitter near the RTD in an area where the ambient temperature stays between -40 and 85 °C (-40 and 185 °F).

- Connect a 100 ohm RTD to the "RTD" terminals as shown below (Figure 1).
- Connect a DC source, not exceeding 35 VDC, to the "PWR" terminals.

Wiring Diagram

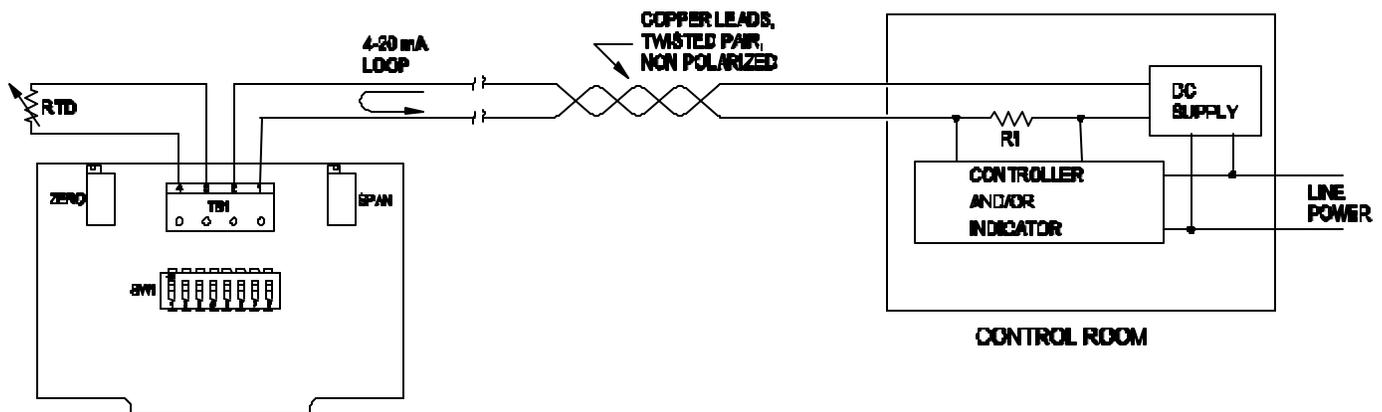


Figure 1

Power Supply

DC power supply requirements are determined by the transmitter's minimum voltage requirement and voltage drop across the load resistor and installation lead wires.

Example: The transmitter requires 8.5 Volts minimum. A typical 250 ohm load resistor drops 5.0 Volts @ 20 mA. Allowing a margin of 0.5 Volts for the supply permits 25 ohms of lead wire resistance for remote installation. Totaling these, we get a minimum power supply requirement of 14 VDC.

Using a 24 VDC power supply will take care of nearly all installations, but the transmitter will operate with as much as 35 VDC.

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