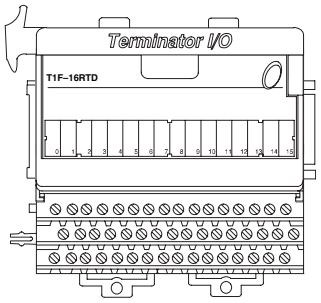
RTD Input Module

T1F-16RTD <--->

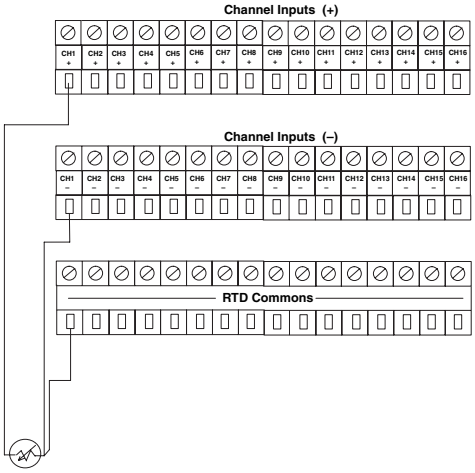
16-channel
RTD input module

The 16-channel RTD input module uses a T1K-16B or T1K-16B-1 base, which is purchased separately.



T1F-16RTD 16-Channel RTD Input Specifications	
Number of Channels	16
Common Mode Range	0-5 VDC
Resolution	± 0.1 °C or °F
Notch Filter	>50db notches @ 50/60 Hz; f - 3db = 13.1 Hz
Absolute Maximum Ratings	±50 VDC
Converter Type	Charge balancing, 24-bit
Master Update Rate	16 channels per scan max.
Input Points Required	512 Discrete I/O points /16 Double Words Network Interface Dependent
Sampling Rate	140ms / channel
Base Power Required	150 mA max., 5 VDC
Temperature Drift	25 ppm / °C (max.)
Maximum Inaccuracy	± 1 °C
RTD Excitation Current	200 µA
Operating Temperature	32° to 140°F (0° to 60°C)
Storage Temperature	-4° to 158°F (-20° to 70°C)
Relative Humidity	5 to 95% (non-condensing)
Environmental Air	No corrosive gases permitted
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Noise Immunity	NEMA ICS3-304
Weight	168 g

RTD Input Ranges		
Input Ranges	Pt100 -200 to 850°C	-328 to 1562°F
	Pt1000 -200 to 595°C	-328 to 1103°F
	Pt100 -38 to 450°C	-36 to 842°F
	Type CU 10 -200°C to 260°C	-328 to 500°F
	Type CU 25 -200°C to 260°C	-328 to 500°F
	120 Ω Nickel -80 to 260°C	-112 to 500°F



Notes:

1: The three wires connecting the RTD to the module must be the same type and length. Do not use the shield or drain wire for the third connection.

2: If an RTD sensor has four wires, the plus sense wire should be left unconnected as shown.

Equivalent Input Circuit