

DL05/06 Option Modules

FO-04RTD <--->

4-channel RTD input module

FO-04RTD Input Specifications	
Number of Channels	4
Input Ranges	Type Pt100: -200.0/850.0°C, -328/1562°F Type Pt1000: -200.0/595.0°C, -328/1103°F Type jPt100: -38.0/450.0°C, -36/842°F Type CU-10/25: -200.0/260.0°C, -328/500°F Type NI-120: -80.0/260.0°C, -112/500°F
Resolution	16 bit (1 in 65535)
Display Resolution	±0.1°C, ±0.1°F (±3276.7)
RTD Excitation Current	200 µA
Notch Filter	> 50 db notches at 50/60 Hz
Maximum Setting Time	100 ms (full-scale step input)
Common Mode Range	0-5 VDC
Absolute Maximum Ratings	Fault protected inputs to ±50 VDC
Sampling Rate	140 ms per channel

FO-04RTD Input Specifications (cont'd)	
Converter Type	Charge Balancing
Linearity Error	±.05°C maximum, ±.01°C typical
Maximum Inaccuracy	±1°C
PLC Update Rate	4 channel/scan
Digital Input Points Required	None; uses special V-memory location based on slot
Base Power Required 5VDC	70 mA
Operating Temperature	32° to 140°F (0° to 60°C)
Storage Temperature	-4° to 158°F (-20° to 70°C)
Temperature Drift	15 ppm / °C max
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

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. Unused channels require shorting wires (jumpers) installed from terminals CH+ to CH- to COM to prevent possible noise from influencing active channels. This should be done even if the unused channel is not enabled in the V-memory configuration.
3. If a RTD sensor has four wires, the plus sense wire should be left unconnected as shown.



NOTE: The DL05 CPU's analog feature for this module requires **DirectSOFT** Version 3.0c (or later) and firmware version 4.70 (or later). The DL06 requires **DirectSOFT** version V4.0, build 16 (or later) and firmware version 1.50 (or later). See our website for more information: www.automationdirect.com.

