

DL05/06 Option Modules

F0-04RTD <--->

4-channel RTD input module

F0-04RTD 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

F0-04RTD Input Specifications (cont'd)	
Terminal Type (included)	Removable: D0-ACC-4
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

CPU	Firmware Required	DirectSOFT Required
DL05	Version 4.70 or later	DirectSOFT32 Version 3.0c or later
DL06	Version 1.50 or later	DirectSOFT32 Version 4.0, Build 16 or later

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 an RTD sensor has four wires, the plus sense wire should be left unconnected as shown.
4. This module is not compatible with the ZIPLink wiring system.

