

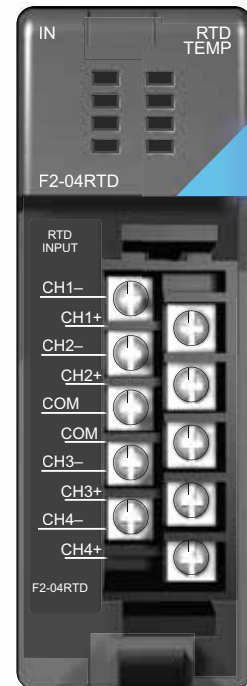
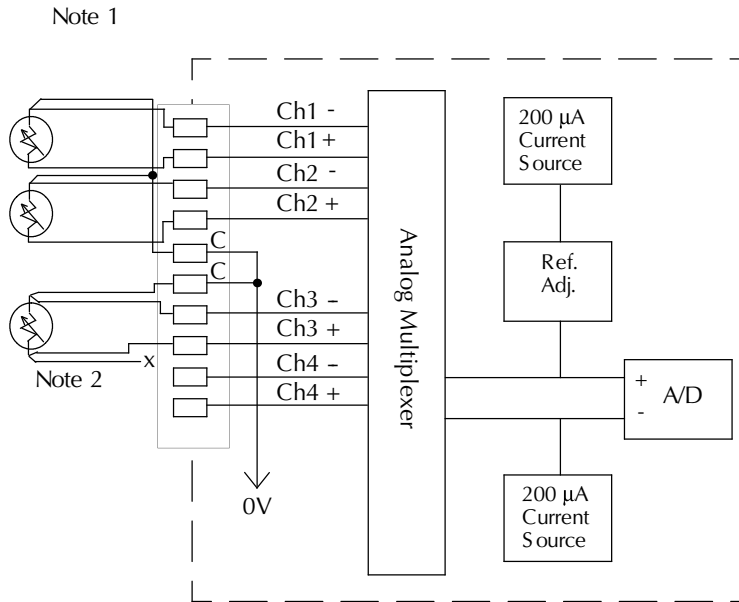
# Temperature Input Modules

F2-04RTD 4-Channel RTD In \$310.00	
<b>Number of Channels</b>	4
<b>Input Ranges</b>	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-10Ω/Cu-25Ω: -200.0/260.0°C, -328/500°F
<b>Resolution</b>	16 bit (1 in 65535)
<b>Display Resolution</b>	±0.1°C, ±0.1°F (±3276.7)
<b>RTD Excitation Current</b>	210µA
<b>Input Type</b>	Differential
<b>Notch Filter</b>	>50 db notches at 50/60 Hz -3db = 13.1 Hz
<b>Maximum Setting Time</b>	100ms (full-scale step input)
<b>Common Mode Range</b>	0-5 VDC
<b>Absolute Maximum Ratings</b>	Fault protected inputs to ±50 VDC
<b>Sampling Rate</b>	160ms per channel

<b>Converter Type</b>	Charge Balancing
<b>Linearity Error</b>	±.05°C maximum, ±.01°C typical
<b>Maximum Inaccuracy</b>	Type Pt100, Pt1000, jPt100: ±1°C Type Cu-10Ω/Cu-25Ω: ±5°C
<b>PLC Update Rate</b>	4 channel/scan max., D2-250(-1)/D2-260CPUs
<b>Digital Input Points Required</b>	32 input points (16 binary data bits, 2 channel ID bits, 4 fault bits)
<b>Base Power Required 5VDC</b>	90 A
<b>Operating Temperature</b>	32° to 140°F (0° to 60°C)
<b>Storage Temperature</b>	-4° to 158°F (-20° to 70°C)
<b>Temperature Drift</b>	None (self-calibrating)
<b>Relative Humidity</b>	5 to 95% (non-condensing)
<b>Environmental Air</b>	No corrosive gases permitted
<b>Vibration</b>	MIL STD 810C 514.2
<b>Shock</b>	MIL STD 810C 516.2
<b>Noise Immunity</b>	NEMA ICS3-304
<b>Terminal Type (included)</b>	Removable; D2-8IOCON

**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.
3. This module is not compatible with the ZIPLink wiring systems.





# Power Requirements

## These charts help determine your power requirements

This section shows the amount of power supplied by each of the base power supplies and the amount of power consumed by each DL205 device. The Power Consumed charts list how much INTERNAL power from each power source is required for the DL205 devices. Use this information when calculating the power budget for your system.

In addition to the internal power sources, the DL205 bases offer a 24 VDC auxiliary power supply with external power connections. This auxiliary power supply can power external devices.

## Use ZIPLinks to reduce power requirements

If your application requires a lot of relay outputs, consider using the ZIPLink AC or DC relay output modules. These modules can switch high current (10A) loads without putting a load on your base power budget. Refer to the Terminal Blocks and Wiring Solutions section in this catalog for more information.

This logo is placed next to the I/O modules that are supported by the ZIPLink connection systems. See the I/O module specifications at the end of this section.



Power Consumed		
Device	5V(mA)	24V Auxiliary
<b>Operator Interface</b>		
DV-1000	150	0
C-more Micro-Graphic	210	0

Power Supplied							
Device	Price	5V(mA)	24V Auxiliary	Device	Price	5V(mA)	24V Auxiliary
<b>Bases</b>				<b>Bases</b>			
D2-03B-1	\$132.00	2600	300	D2-06BDC1-1	\$194.00	2600	None
D2-03BDC1-1	\$150.00	2600	None	D2-06BDC2-1	\$184.00	2600	300
D2-04B-1	\$143.00	2600	300	D2-09B-1	\$220.00	2600	300
D2-04BDC1-1	\$171.00	2600	None	D2-09BDC1-1	\$238.00	2600	None
D2-06B-1	\$176.00	2600	300	D2-09BDC2-1	\$238.00	2600	300

Power Consumed		
Device	5V(mA)	24V Auxiliary
<b>CPUs</b>		
D2-250-1	330	0
D2-260	330	0
H2-WPLC*-**	680	0
<b>DC Input Modules</b>		
D2-08ND3	50	0
D2-16ND3-2	100	0
D2-32ND3	25	0
D2-32ND3-2	25	0
<b>AC Input Modules</b>		
D2-08NA-1	50	0
D2-08NA-2	100	0
D2-16NA	100	0
<b>Input Simulator Module</b>		
F2-08SIM	50	0
<b>DC Output Modules</b>		
D2-04TD1	60	20
D2-08TD1	100	0
D2-08TD2	100	0
D2-16TD1-2	200	80
D2-16TD2-2	200	0
F2-16TD1P	70	50
F2-16TD2P	70	50
D2-32TD1	350	0
D2-32TD2	350	0
<b>AC Output Modules</b>		
D2-08TA	250	0
F2-08TA	250	0
D2-12TA	350	0
<b>Relay Output Modules</b>		
D2-04TRS	250	0
D2-08TR	250	0
F2-08TR(S)	670	0
D2-12TR	450	0
<b>Combination In/Out Module</b>		
D2-08CDR	200	0

Power Consumed		
Device	5V(mA)	24V Auxiliary
<b>Analog Modules</b>		
F2-04AD-1	100	5
F2-04AD-2	110	5
F2-08AD-1	100	5
F2-08AD-2	100	5
F2-02DA-1	40	60 (note 1)
F2-02DA-1L	40	70 @ 12V (note 1)
F2-02DA-2	40	60
F2-02DA-2L	40	70 @ 12V
F2-02DAS-1	100	50 / channel
F2-02DAS-2	100	60 / channel
F2-08DA-1	30	50 (note 1)
F2-08DA-2	60	140
F2-4AD2DA	60	80 (note 1)
F2-8AD4DA-1	35	100 (note 1)
F2-8AD4DA-2	35	80 (note 1)
F2-04RTD	90	0
F2-04THM	110	60
<b>Specialty Modules</b>		
D2-CTRINT	50*	0
D2-CM / D2-EM	100/130	0
H2-CTRIO2	275	0
D2-DCM	300	0
F2-DEVNETS	160	0
F2-SDS-1	160	0
H2-EBC100	300	0
H2-EBC-F	640	0
H2-ECOM100	300	0
H2-ECOM-F	640	0
F2-CP128	235	0
<b>Remote I/O</b>		
H2-ERM100, (-F)	300, (-F: 450)	0
<b>Programming Devices</b>		
D2-HPP	200	0

\*requires external 5VDC for outputs  
Note 1: Add an additional 20 mA per output loop.