

Analog Modules

ND-6013

3-CH RTD Input Module



Analog Input

- Channels: 3
- Input Type: Pt-100, Ni-100, Ni 120 RTD or Ohm

RTD	Type	Temperature Range
Pt	-100°C to +100°C	= 0.00385
Pt	0°C to +100°C	= 0.00385
Pt	0°C to +200°C	= 0.00385
Pt	0°C to +600°C	= 0.00385
Pt	-100°C to +100°C	= 0.003916
Pt	0°C to +100°C	= 0.003916
Pt	0°C to +200°C	= 0.003916
Pt	0°C to +600°C	= 0.003916
Ni	-100°C to +100°C	
Ni	-120°C to +100°C	
Ω	0 Ω to +60 Ω	

- Isolation Voltage: 2500 VRMS
- Sampling Rate: 3 samples/sec
- Input Wiring: 2, 3, or 4 wires

Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 0.696 W typical

ND-6017

8-CH Analog Input Module



Analog Input

- Channels: 6 differential & 2 singled-ended
- Input Type: mV, V, and mA
- Input Range: ± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V
- Current Range: 0 to 20 mA (with external 125 Ω resistor)
- Isolated Voltage: 2500 VRMS
- Sampling Rate: 20 samples/sec

Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 1.2 W typical

ND-6018

8-CH Thermocouple Input Module



Analog Input

- Channels: 6 differential & 2 singled-ended
- Input Type: Thermocouple, mV, V, or mA
- Thermocouple Type: J, K, T, E, R, S, B, N, C
- Thermocouple Input Range
 - J: 0°C to 760°C
 - K: 0°C to 1,370°C
 - T: -100°C to +400°C
 - E: 0°C to 1,000°C
 - R: 500°C to 1,750°C
 - S: 500°C to 1,750°C
 - B: 500°C to 1,800°C
 - N: -270°C to 1,300°C
 - C: 0°C to 2,320°C
- Internal CJC can be enable/disable
- Voltage Range: ± 15 mV, ± 50 mV, ± 100 mV, ± 500 mV, ± 1 V, ± 2.5 V
- Current Range: 0 to 20 mA (with external 125 Ω resistor)
- Isolated Voltage: 2500 VRMS
- Sampling Rate: 10 samples/sec

Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 0.96 W typical

ND-6021

Analog Output Module



Single Channel Analog Output

- Voltage Output: 0 to +10 V
- Current Output: 0 to +20 mA, +4 to +20 mA
- Output Isolation: 5000 VRMS
- Resolution: 12-bit output resolution accuracy
- Programmable Output Slope:
 - 0.125 to 128 mA/sec
 - 0.0625 to 64 V/sec
- Current Load Resistor: 0 to 500 Ω

Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 1.32 W typical

ND-6024

4-CH Analog Output Module



Analog Output

- Channels: 4
- Voltage Output -10 V to +10 V
- Resolution: 12-bit
- Accuracy: $\pm 0.02\%$ of FSR
- Maximum current output: ± 10 μA
- Gain Drift: 10 ppm FSR/°C

Digital Input

- Channels: 7
- Switching Levels: TTL

Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 1.848 W typical

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