Analog Modules

ND-6013

3-CH RTD Input Module

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

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 0°C to +100°C
Ni	-120 0°C to +100°C
Ω	0 Ω to +60 Ω

- Isolation Voltage: 2500 VRMS
- Sampling Rate: 10 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: 10 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: 3 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 Resister: 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: ±0.02% of FSR
- Maximum current output: ±10 μA
- Gain Drift: 10 ppm FSR/°C

Digital Input
- Channels: 7
- Switching Levels: TTL
- Internal Pull-up Resister: 10 k

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