

# ADAM-3011 ADAM-3013 ADAM-3014

## Isolated Thermocouple Input Module

## Isolated RTD Input Module

## Isolated DC Input/Output Module



ADAM-3011



ADAM-3013



ADAM-3014



### Specifications

#### Thermocouple Input

- Common Mode Rejection: 115 dB min
- Input Type

T/C type	Temperature Range (°C)	Accuracy at 25°C (°C)
J	-40 ~ 760	±2
K	0 ~ 1,000	±2
T	-100 ~ 400	±2
E	0 ~ 1,000	±2
S	500 ~ 1,750	±4
R	500 ~ 1,750	±4
B	500 ~ 1,800	±4

- Isolation: 1,000 V<sub>DC</sub> (Three-way)
- Output Impedance: 0.5 Ω
- Stability (Temperature Drift): ±2°C
- Voltage Output: 0 ~ 10 V

#### General

- Connectors: Screw terminal
- Enclosure: ABS
- Indicators: Power LED indicator
- Isolation: 1,000 V<sub>DC</sub>
- Power Consumption: 1.4 W
- Power Input: 24 V<sub>DC</sub> ±10%
- Operating Temperature: 0 ~ 50°C (32 ~ 122°F)
- Storage Temperature: -25 ~ 85°C (-13 ~ 185°F)

### Ordering Information

- ADAM-3011: Isolated Thermocouple Input Module

### Specifications

#### RTD Input

- Accuracy: ±0.1% of full range (voltage) or +/- 0.15°C (voltage) ±0.2% of full range (current)
- Bandwidth: 4 Hz
- Input CMR at DC: 92 dB min.
- Input Connections: 2, 3 or 4 wires
- Input Type

RTD type	α	Temperature Range (°C)
Pt	0.00385	-100 ~ 100
Pt	0.00385	0 ~ 100
Pt	0.00385	0 ~ 200
Pt	0.00385	0 ~ 600
Pt	0.00385	-100 ~ 0
Pt	0.00385	-100 ~ 200
Pt	0.00385	-50 ~ 50
Pt	0.00385	-50 ~ 150
Pt	0.00392	-100 ~ 100
Pt	0.00392	0 ~ 100
Pt	0.00392	0 ~ 200
Pt	0.00392	0 ~ 600
Ni	N/A	0 ~ 100
Ni	N/A	-80 ~ 100

- Output Range: 0 ~ 5 V, 0 ~ 10 V, 0 ~ 20 mA
- Output Resistance: < 5 Ω
- Temperature Drift: ±30 ppm of full range

#### General

- Connectors: Screw terminal
- Enclosure: ABS
- Indicators: Power LED indicator
- Isolation: 1,000 V<sub>DC</sub>
- Power Consumption: < 0.95 W
- Power Input: 24 V<sub>DC</sub> ±10%
- Operating Temperature: 0 ~ 70°C (32 ~ 158°F)
- Storage Temperature: -25 ~ 85°C (-13 ~ 185°F)

### Ordering Information

- ADAM-3013: Isolated RTD Input Module

### Specifications

#### I/O

- Accuracy: ±0.1% of full range (typical)
- Common Mode Rejection: > 100 dB @ 50 Hz/60 Hz
- Current Input: Bipolar: ±20 mA, Unipolar: 0 ~ 20 mA, Input impedance: 250 Ω
- Current Output: 0 ~ 20 mA
- Stability (Temperature Drift): 150 ppm (typical)
- Voltage Input: Bipolar input: ±10 mV, ±50 mV, ±100 mV, ±0.5 V, ±1.0 V, ±5 V, ±10 V, Unipolar input: 0 ~ 10 mV, 0 ~ 50 mV, 0 ~ 100 mV, 0 ~ 0.5 V, 0 ~ 1 V, 0 ~ 5 V, 0 ~ 10 V, Input impedance: 2 MΩ, Input bandwidth: 2.4 kHz (typical)
- Voltage Output: Bipolar: ±5 V, ±10 V, Unipolar: 0 ~ 10 V, Impedance: < 50 Ω, Drive: 10 mA max.

#### General

- Connectors: Screw terminal
- Enclosure: ABS
- Indicators: Power LED indicator
- Isolation (Three-way): 1,000 V<sub>DC</sub>
- Power Consumption: 0.85 W (voltage output), 1.2 W (current output)
- Power Input: 24 V<sub>DC</sub> ±10%
- Operating Temperature: -10 ~ 70°C (14 ~ 158°F)
- Storage Temperature: -25 ~ 85°C (-13 ~ 185°F)

### Ordering Information

- ADAM-3014: Isolated DC Input/Output Module