

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

- **Input Type**
T/C type, temperature range and accuracy at 25° C:

J	-40° ~ 760° C	(±2° C)
K	0° ~ 1000° C	(±2° C)
T	-100° ~ 400° C	(±2° C)
E	0° ~ 1000° C	(±2° C)
S	500° ~ 1750° C	(±4° C)
R	500° ~ 1750° C	(±4° C)
B	500° ~ 1800° C	(±4° C)
- **Voltage Output** 0 ~ 10 V
- **Output Impedance** 0.5 Ω
- **Isolation (three way)** 1,000 V_{DC}
- **Stability (temperature drift)** ±2° C
- **Common Mode Rejection** 115 dB min
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Power Consumption** 1.4 W

Specifications

- **Input Type** Pt or Ni RTD
- **RTD Types and Temperature Ranges**

Pt	-100° ~ 100° C	a=0.00385
Pt	0° ~ 100° C	a=0.00385
Pt	0° ~ 200° C	a=0.00385
Pt	0° ~ 600° C	a=0.00385
Pt	-100° ~ 0° C	a=0.00385
Pt	-100° ~ 200° C	a=0.00385
Pt	-50° ~ 50° C	a=0.00385
Pt	-50° ~ 150° C	a=0.00385
Pt	-100° ~ 100° C	a=0.00392
Pt	0° ~ 100° C	a=0.00392
Pt	0° ~ 200° C	a=0.00392
Pt	0° ~ 600° C	a=0.00392
Ni	0° ~ 100° C	
Ni	-80° ~ 100° C	
- **Input Connections** 2, 3 or 4 wires
- **Output Range** 0 ~ 5 V, 0 ~ 10 V, 0 ~ 20 mA
- **Output Resistance** < 5 Ω
- **Accuracy** +/- 0.1% of full range (voltage) or +/- 0.15° C (voltage) +/- 0.2% of full range (current)
- **Temperature Drift** +/- 30 ppm of full range
- **Input CMR at DC** 92 dB minimum
- **Isolation** 1,000 V_{DC}
- **Supply Voltage** 24 V_{DC} +/- 10%
- **Operating Temperature** 0 ~ 70° C (32 ~ 158° F)
- **Bandwidth** 4 Hz
- **Power consumption** < 0.95 W

Specifications

- **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)
- **Current Input**

Bipolar: ±20 mA

Unipolar: 0 ~ 20 mA

Input impedance: 250 Ω
- **Voltage Output**

Bipolar: ±5 V, ±10 V

Unipolar: 0 ~ 10 V

Impedance: < 50 Ω

Drive: 10 mA max.

0 ~ 20 mA
- **Current Output** 0 ~ 20 mA
- **Isolation (three way)** 1,000 V_{DC}
- **Accuracy** ±0.1% of full range (typical)
- **Stability (temperature drift)** 150 ppm (typical)
- **Common Mode Rejection** > 100 dB @ 50 Hz/60 Hz
- **Power Consumption** 0.85 W (voltage output) 1.2 W (current output)

Ordering Information

- **ADAM-3011** Isolated Thermocouple Input Module

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- **ADAM-3013** Isolated RTD Input Module

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- **ADAM-3014** Isolated DC Input/Output Module