

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 |
|----------|------------------------|-------------------|
| 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_{DC} (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_{DC}
- Power Consumption 1.4 W
- Power Input 24 V_{DC} ±10%
- Dimensions (W x H x D) 23.2 x 101 x 93.5 mm (0.91" x 3.97" x 3.68")
- Operating Temperature 0 ~ 50 °C (32 ~ 122 °F)
- Storage Temperature -25 ~ 85 °C (-13 ~ 185 °F)

Ordering Information

- ADAM-3011-AE 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)
4 Hz
92 dB min.
2/3/4 wires
- Bandwidth
- Input CMR at DC
- Input Connections
- 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_{DC}
- Power Consumption < 0.95 W
- Power Input 24 V_{DC} ±10%
- Dimensions (W x H x D) 23.2 x 101 x 93.5 mm (0.91" x 3.97" x 3.68")
- Operating Temperature 0 ~ 70 °C (32 ~ 158 °F)
- Storage Temperature -25 ~ 85 °C (-13 ~ 185 °F)

Ordering Information

- ADAM-3013-AE 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 1,000 V_{DC} (three way)
- Power Consumption 0.85 W (voltage output)
1.2 W (current output)
- Power Input 24 V_{DC} ±10%
- Dimensions (W x H x D) 23.2 x 101 x 93.5 mm (0.91" x 3.97" x 3.68")
- Operating Temperature -10 ~ 70 °C (14 ~ 158 °F)
- Storage Temperature -25 ~ 85 °C (-13 ~ 185 °F)

Ordering Information

- ADAM-3014-AE Isolated DC input/output module