

ADAM-3011
ADAM-3013
ADAM-3014

Isolated Thermocouple Input Module
Isolated RTD Input Module
Isolated DC Input/Output Module



ADAM-3011
Isolated Thermocouple Input Module

- **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

ADAM-3013
Isolated RTD Input Module

- **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 Range:** 0° ~ 70° C (32° ~ 158° F)
- **Bandwidth:** 4 Hz
- **Power consumption:** < 0.95 W

ADAM-3014
Isolated DC Input/Output Module

- **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.
- **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)