

ADAM-3016

ADAM-3112

ADAM-3114

Isolated Strain Gauge Input Module

Isolated AC Voltage Input Module

Isolated AC Current Input Module



ADAM-3016



ADAM-3112



ADAM-3114



Specifications

I/O

- **Accuracy** $\pm 0.1\%$ of full range
- **Bandwidth** 2.4 kHz (typical)
- **Isolation Mode Rejection** >100 dB @ 50 Hz/60 Hz
- **Current Output** Current: 0 ~ 20 mA
Current load resistor: 0 ~ 500 Ω (Source)
- **Stability (Temperature Drift)** 150 ppm (typical)
- **Voltage Specifications** Electrical input: ± 10 mV, ± 20 mV, ± 30 mV, ± 100 mV
Excitation voltage: 1 ~ 10 V_{DC} (60 mA max)
- **Voltage Output** Bipolar: ± 5 V, ± 10 V
Unipolar: 0 ~ 10 V
Impedance: $< 50 \Omega$

General

- **Connectors** Screw terminal
- **Enclosure** ABS
- **Indicators** Power LED indicator
- **Isolation** 1,000 V_{DC} (Three-way)
- **Power Consumption** ≤ 1.85 W (voltage output)
 ≤ 2.15 W (current output)
- **Power Input** 24 $V_{DC} \pm 10\%$
- **Operating Temperature** $-10 \sim 70^\circ\text{C}$ ($14 \sim 158^\circ\text{F}$)
- **Storage Temperature** $-25 \sim 85^\circ\text{C}$ ($-13 \sim 185^\circ\text{F}$)

Ordering Information

- **ADAM-3016** Isolated Strain Gauge Input Module

Specifications

Voltage Input

Full Range Mode		400 V	250 V	120 V
Input Voltage	AC (V_{RMS})	0 ~ 400	0 ~ 250	0 ~ 120
	DC (V)	0 ~ 400	0 ~ 250	0 ~ 120
Input Impedance		48 k	30 k	14.4 k

Voltage Output

- **Output Signal** 0 ~ 5 V_{DC}
- **Accuracy** $< \pm 1.0\%$ for full range
- **Output Impedance** $< 10 \Omega$ @ operating frequency < 60 Hz
- **Load** > 10 k Ω
- **Ripple** < 120 mVp-p
- **Temperature Coefficient** 400 ppm/ $^\circ\text{C}$
- **Input Bandwidth** 6 kHz

Power Consumption

- **Supply Voltage** 24 $V_{DC} \pm 10\%$
- **Current Consumption** 40 mA

General

- **Isolation Protection** 1,000 V_{DC} (output to power)
2,500 V_{RMS} (input to output, input to power)
- **Operating Temperature** $0 \sim 60^\circ\text{C}$ ($32 \sim 140^\circ\text{F}$)
- **Storage Temperature** $-20 \sim 70^\circ\text{C}$ ($-4 \sim 158^\circ\text{F}$)
- **Storage Humidity** 5 ~ 95 %

Ordering Information

- **ADAM-3112** Isolated AC Voltage Input Module

Specifications

Current Input

- **AC Current Input** 0 ~ 5 A_{RMS}
- **DC Current Input** 0 ~ 5 A

Voltage Output

- **Output Signal** 0 ~ 5 V_{DC}
- **Accuracy** $< \pm 1.0\%$ for full range
- **Output Impedance** $< 10 \Omega$ @ operating frequency < 60 Hz
- **Load** > 10 k Ω
- **Ripple** < 120 mVp-p
- **Temperature Coefficient** 400 ppm/ $^\circ\text{C}$
- **Input Bandwidth** 10 kHz

Power Consumption

- **Supply Voltage** 24 $V_{DC} \pm 10\%$
- **Current Consumption** 40 mA

General

- **Isolation Protection** 1,000 V_{DC} (output to power)
2,500 V_{RMS} (input to output, input to power)
- **Operating Temperature** $0 \sim 60^\circ\text{C}$ ($32 \sim 140^\circ\text{F}$)
- **Storage Temperature** $-20 \sim 70^\circ\text{C}$ ($-4 \sim 158^\circ\text{F}$)
- **Storage Humidity** 5 ~ 95 %

Ordering Information

- **ADAM-3114** Isolated AC Current Input Module