

# ADAM-3016

# ADAM-3112

# ADAM-3114

Isolated Strain Gauge Input Module

Isolated AC Voltage Input Module

Isolated AC Current Input Module



ADAM-3016



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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  $\Omega$  (Source)
- **Stability (Temperature Drift)** 150 ppm (typical)
- **Voltage Specifications** Electrical input:  $\pm 10$  mV,  $\pm 20$  mV,  $\pm 30$  mV,  $\pm 100$  mV  
Excitation voltage: 1 ~ 10  $V_{DC}$  (60 mA max)
- **Voltage Output** Bipolar:  $\pm 5$  V,  $\pm 10$  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**  $\leq 1.85$  W (voltage output)  
 $\leq 2.15$  W (current output)
- **Power Input** 24  $V_{DC} \pm 10\%$
- **Operating Temperature** -10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature** -25 ~ 85°C (-13 ~ 185°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  $\Omega$
- **Ripple** < 120mVp-p
- **Temperature Coefficient** 400 ppm/°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 ~ 60°C (32 ~ 140°F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158°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  $\Omega$
- **Ripple** < 120 mVp-p
- **Temperature Coefficient** 400 ppm/°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 ~ 60°C (32 ~ 140°F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158°F)
- **Storage Humidity** 5 ~ 95 %

## Ordering Information

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