

# 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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## 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

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

## 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**  $< 120$  mVp-p
- **Temperature Coefficient** 400 ppm/ $^\circ C$
- **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 $^\circ C$
- **Storage Temperature**  $-20 \sim 70^\circ C$
- **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/ $^\circ C$
- **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 $^\circ C$
- **Storage Temperature**  $-20 \sim 70^\circ C$
- **Storage Humidity** 5 ~ 95 %

## Ordering Information

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