

# ADAM-3016

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## Isolated Strain Gauge Input Module

## External Powered IEPE Signal Conditioner



ADAM-3016



### 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<sub>DC</sub> (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<sub>DC</sub> (Three-way)
- **Power Consumption**  $\leq 1.85$  W (voltage output)  
 $\leq 2.15$  W (current output)
- **Power Input** 24 V<sub>DC</sub>  $\pm 10\%$
- **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-3016-AE** Isolated strain gauge input module



ADAM-3017



### Specifications

#### Integrated Electronic Piezoelectric (IEPE) Excitation

- **Channels** 1
- **Upper Cut-Off Frequency (for all couple settings)** x1, x10 gain (-5%) 100 kHz  
x100 gain (-1%) 50 kHz
- **Lower Cut-Off Frequency (-3dB, 1 M $\Omega$  load, for all gain settings)** DC Couple DC  
AC Couple (1  $\mu$ F) 0.58 Hz  
AC Couple (47  $\mu$ F) 0.012 Hz
- **Accuracy** <  $\pm 2\%$  for all gain settings
- **Compliance** > 24 V
- **Current** 0, 4, 6, or 10 mA  $\pm 5\%$
- **Discharge Time Constant (1 M $\Omega$  load, for all gain settings)** DC Couple 0 second  
AC Couple (1  $\mu$ F) > 0.3 seconds  
AC Couple (47  $\mu$ F) > 13 seconds
- **DC Offset** < 30 mV

#### Isolation Protection

- **Input/Output to Power** 1,000 V<sub>DC</sub>

#### General

- **I/O Connectors** Screw terminal  
(Including a female BNC to terminal block adaptor)
- **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 ~ 60 °C (32 ~ 140 °F)
- **Storage Temperature** -20 ~ 70 °C (-4 ~ 158 °F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing

### Ordering Information

- **ADAM-3017-AE** Externally powered IEPE signal conditioner