

# ADAM-3016

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## Isolated Strain Gauge Input Module

## External Powered IEPE Signal Conditioner



ADAM-3016



### Specifications

#### I/O

- Accuracy ±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<sub>DC</sub> (60 mA max)
- Voltage Output Bipolar: ±5 V, ±10 V  
Unipolar: 0 ~ 10 V  
Impedance: < 50 Ω

#### General

- Connectors Screw terminal
- Enclosure ABS
- Indicators Power LED indicator
- Isolation 1,000 V<sub>DC</sub> (Three-way)
- Power Consumption ≤ 1.85 W (voltage output)  
≤ 2.15 W (current output)
- Power Input 24 V<sub>DC</sub> ±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 MΩ load, for all gain settings) DC Couple DC  
AC Couple (1 μF) 0.58 Hz  
AC Couple (47 μF) 0.012 Hz
- Accuracy < ±2% for all gain settings
- Compliance > 24 V
- Current 0, 4, 6, or 10 mA ± 5%
- Discharge Time Constant (1 MΩ load, for all gain settings) DC Couple 0 second  
AC Couple (1 μF) > 0.3 seconds  
AC Couple (47 μF) > 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