

ADAM-3016

ADAM-3017

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 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 Ω

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} $\pm 10\%$
- 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 Ω load, for all gain settings)
 - DC Couple DC
 - AC Couple (1 μ F) 0.58 Hz
 - AC Couple (47 μ 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 Ω load, for all gain settings)
 - DC Couple 0 second
 - AC Couple (1 μ F) > 0.3 seconds
 - AC Couple (47 μ F) > 13 seconds
- DC Offset: < 30 mV

Isolation Protection

- Input/Output to Power: 1,000 V_{DC}

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