ADAM-3016 ADAM-3017

Isolated Strain Gauge Input Module External Powered IEPE Signal Conditioner

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ADAM-3016

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Specifications

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I/U	
 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: $1 \sim 10 V_{DC}$ (60 mA max)
 Voltage Output 	Bipolar: ±5 V, ±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
- Power Input
- Dimensions (W x H x D)
- Operating Temperature
- Storage Temperature

Ordering Information

ADAM-3016

Isolated strain gauge input module

23.2 x 101 x 93.5 mm (0.91" x 3.97" x 3.68")

 \leq 1.85 W (voltage output) ≤ 2.15 W (current output)

-10 ~ 70 °C (14 ~ 158 °F)

-25 ~ 85 °C (-13 ~ 185 °F)

 $24 \; V_{\text{DC}} \pm 10\%$

ADAM-3017 **Specifications**

Preliminary

Integrated Electronic Piezoelectric (IEPE)Excitation

- Channels
- Upper Cut-Off Frequency (for all couple settings) 100 kHz x1, x10 gain (-5%) 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 Vpc

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

AD\ANTECH Industrial I/O

All product specifications are subject to change without notice.