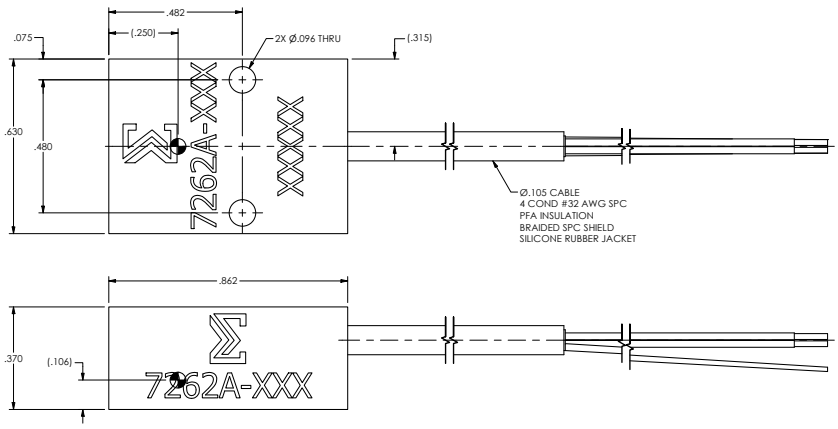
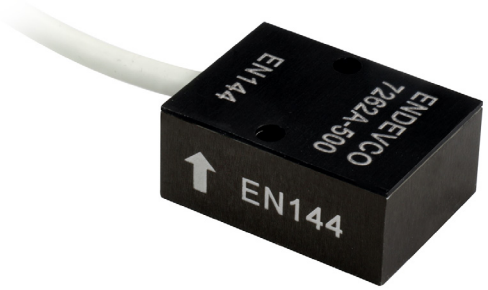
ENDEVCO
AN AMPHENOL COMPANY

Amplified output piezoresistive accelerometer

Model 7262A





UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	
DIMENSIONS IN INCHES DECIMALS XX ±.03 XXX ±.010 ANGLES ± 2 DEGREES	DIMENSIONS IN MILLIMETERS [IN BRACKETS] DECIMALS X ± 0.8 XX ± 0.25 ANGLES ± 2 DEGREES
FILLETS AND RADII .003 - .005	FILLETS AND RADII 0.07 - 0.13

Key features

- Rugged piezoresistive accelerometer with voltage output
- DC response and wide bandwidth
- Internal temperature compensation
- IP67 for protection in outdoor testing
- Rugged to 10,000g shocks

Description

The Endevco Model 7262A Piezoresistive Accelerometers are rugged, gas damped accelerometers with amplified output and internal temperature compensation. With a frequency response extending down to DC, this accelerometer is ideal for measuring long duration transient shocks. The anodized aluminum package is small and lightweight with an integral cable.

7262A comes standard with an A2LA accredited frequency response calibration at 10V with sensitivity and ZMO provided. Model 7262A can be wired for either a differential or single ended output. The differential output has a range of ±0.5 V (-100 only) or ±1.0V (-500 and -1000 only). In single-ended mode, the output is 2.0V to 3.0V (-100 only) or 1.5V to 3.5V (-500 and -1000 only), with 2.5 V of bias voltage.

US patent 6,988,412 applies.

Amplified output piezoresistive accelerometer | Model 7262A

All specifications are referenced at +75˚F (+24˚C) and 10 VDC, unless otherwise noted. Calibration data traceable to National Institute of Standards and Technology (NIST) is supplied.

Specifications

Dynamic characteristics	Units	-100	-500	-1000
Range	g	±100	±500	±1000
Sensitivity (at 100Hz and 10g)	mV/g min/typ/max	4 / 5 / 6	1.6 / 2.0 / 2.4	0.8 / 1.0 / 1.2
Frequency Response				
±5% maximum	Hz	0 to 2000	0 to 2000	0 to 2000
Non-linearity	%FSO typ	±2	±2	±2
Zero Measurand Output	mV max	±50	±50	±50
Transverse Sensitivity	% typ	2	2	2
Resonance Frequency [1]	Hz	25,000	25,000	25,000
Thermal Zero Shift				
-65 to +250°F (-54 to +121°C)	%FSO typ/max	±2 / ±4	±2 / ±4	±2 / ±4
Thermal Sensitivity Shift				
-65 to +250°F (-54 to +121°C)	% typ/max	±2 / ±4	-±2 / ±4	±2 / ±4
Electrical Clipping on Output	V	±2.4	±2.4	±2.4
Corresponding to	g	±480	±1200	±2400

Electrical characteristics	
Warm-up Time	100ms to 1%FSO accuracy; warm-up of 2 minutes recommended
Excitation	6 to 18Vdc
Output Impedance, max	200 ohms
Current drain, max	5 mA
Insulation Resistance	1 Mohm min, 20 Vdc between case and shorted leads
Residual Noise	500 uV RMS, 0.5 Hz to 10,000 Hz

Physical characteristics	
Case, material	Anodized Aluminum
Cable	Integral 4-Conductor (0.105" OD), #32 AWG Teflon-insulated leads, shielded, silicone rubber jacket
Mounting	Two 2-56 high strength screws, two #2 washes, recommended mounting torque 6 ±1 lbf-in (0.7 ±0.1 N-m)
Weight	6 grams

Environmental	
Acceleration Limits (in any direction)	
Shock	10,000 g
Temperature	
Operating	-54° to +121°C (-65° to +250°F)
Storage	-54° to +121°C (-65° to +250°F)
Humidity	Epoxy sealed; IP67
ESD Sensitivity	Meets Class 3B (>8000 Volts) per JEDEC JS001

Calibration

Each sensor includes an ISO 17025 calibration with the below information:
Sensitivity (ref 10g, 100Hz)
ZMO
Frequency Response (20 to 2000Hz, ref 100Hz)

Accessories		
Options	**Description**	**7262A**
EDVEH597	2-56 x 1/2" socket head cap screws (2)	Included
EDVEHW200	Size 2 flat washers (2)	Included
EDVEHM178	5/64" allen wrench	Included

Notes

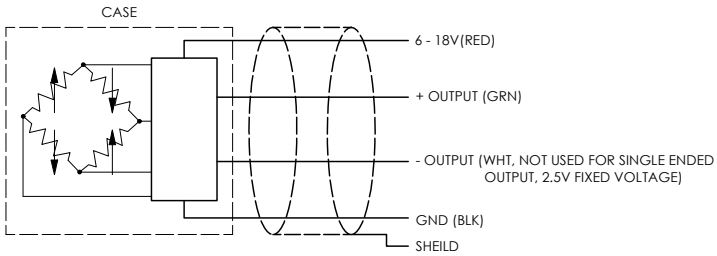
Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 866-ENDEVCO for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.

1. The primary resonance (25kHz) and the secondary resonance (36kHz) are both damped using our proprietary multi-mode damping.

Model number definition:

7262A – XXX – ZZZ

- ZZZ: Cable Length in inches (omit for default length of 48 inches)
  For lengths ≤ 10ft specify 1ft increments (60", 72", … 120")
  For lengths > 10ft specify 5ft increments (180", 240" …)
- XXX: Range (in g)
  -100 = 100 g
  -500 = 500 g
  -1000 = 1000 g
- 7262A: Basic model number



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