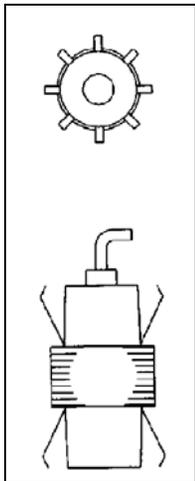
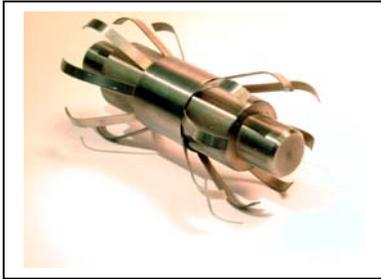


Columbia Research Laboratories, Inc. **Waterproof Biaxial Accelerometers**

Models HEVP-12 & -14

- *Biaxial Vibration Measuring Probe
- *Choice of Sensitivities
- *Lightweight, Small Size
- *Hermetically Sealed
- *Unique Mounting Design
- *Integral Hardwire Cable



Dimensions Differ by Model

The Series HEVP Piezoelectric Accelerometers are precision manufactured biaxial probe sensors designed for vibration measurements in two mutually perpendicular axes. Complete vibration studies may be performed over the entire length of a tube by simply moving the probe within the tube. The unique design of the piezoelectric seismic system ensures that the units have no discernible spurious response to mounting torque, body strains, cable vibration, cable whip, pressure variations and most heat transients.

The accelerometers and all connecting leads are completely waterproof and designed to withstand water pressure and temperature variations. It's small size and unique mounting configuration accommodates tubes and pipes with internal diameters as small as 0.60 inches. The Series HEVP accelerometers are equipped with an integral sheathed cable that can be ordered in any length up to 150 feet long. *Consult the factory for customized versions of these sensors.*

Specifications

Transfer / Electrical	HEVP-12	HEVP-14
Charge Sensitivity ¹	40 pC/g	20 pC/g
Capacitance (Crystal Only)	500 pF	
Frequency Linearity ²	5% Max 2 Hz To 500 Hz	5% Max 10 Hz To 500 Hz
Mounted Resonant Frequency	2500 Hz	
Transverse Sensitivity	5% Max	
Amplitude Linearity	+/-1% (BFSL)	
Insulation Resistance	10,000 M Ohm Min.	
Isolation Resistance	0 (Case Grounded)	
Environmental		
Vibration Limit	25 g Max (Sine)	
Shock Limit	50 g Max	
Temperature Range	-40 To +350 Deg F (-40 To +177 Deg C)	
Humidity ³	0 To 100% R.H.	
Physical		
Configuration	Bender	
Size	0.375 In. Dia. x 1.30 In. L (9.5 mm Dia. x 33.0 mm L) Excluding Tension Springs	0.35 In. Dia. x 2.00 In L (8.9 mm Dia. x 50.8 mm L) Excluding Tension Springs
Weight (Sensor Only)	0.53 Oz (15 Gm)	
Case Material	316 Stainless Steel	
Electrical Interface	Integral Hard-Wire Cable (Chromel-Alumel Thermocouple Wire sheathed with Inconel) with (2) Industry Standard Coaxial 10-32 Adapters	
Cable Length	30 Ft. Standard (Custom Lengths Avail Up To 150 Ft.)	20 Ft. Standard (Custom Lengths Avail Up To 150 Ft.)
Mounting	Compressed Tension Springs	

NOTES:

¹ At +75 Deg F, 10g Peak, 100Hz; Lower Frequency Limit is Determined by Associated Electronics

² Referenced to Sensitivity @ 100 Hz.

³ Unit is Hermetically Sealed

Accessories Supplied:

(2) Low Noise Cable Assy, LNHT-3 Ft.

(1) Standard Calibration Data

(1) Certificate of Calibration Traceable to N.I.S.T.

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