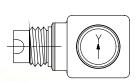
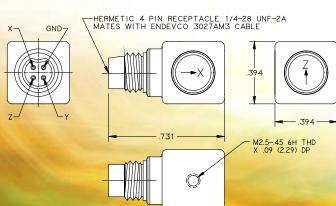
Model 65HT Isotron® accelerometer

Features

- NEW! 65HT-10-R available as replacement sensor
- Shock-proof, overload-protected
- Automotive test cell
- Aerospace test chambers
- Triaxial, low-impedance output
- Small size (10-mm cube, 5 gram)
- Rated for continuous use up to +175°C







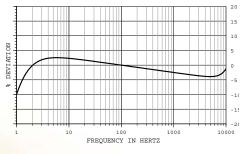
STANDARD TOLERANCE
INCHES (MILLIMETERS)
.XX = ± .03 (.X + ± .8)
.XXX = ± .010 (.XX = ± .25)

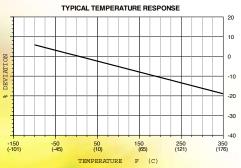
Description

The extended temperature capability (+175°C) and high resolution of Endevco's model 65HT triaxial accelerometer distinguish it from competitor offerings. The Endevco® model 65HT is packaged in a 10-mm cube of welded titanium construction. Interface to the model 65HT is via a hermetically sealed 4-pin connector. Using the latest technology in high temperature components and processes, the micro-electronic circuits are designed and built specifically to continuously operate at +175°C. It is supplied with high temperature cable assemblies as a standard accessory.

The model 65HT's excellent frequency responses, both amplitude and phase, provide the user with a triaxial accelerometer ideally suited for structural and component testing in automotive test cells, environmental test chambers and general laboratory applications. The reduced size of this accelerometer enables the test engineer or technician to measure the accelerations of three orthogonal axes of vibration simultaneously on lightweight structures.

Endevco signal conditioner models 133, 2792B, 2793 or Oasis are recommended for use with this accelerometer.







Model 65HT Isotron® accelerometer

Endevco

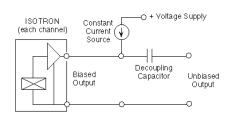
Specifications

The following performance specifications conform to ISA-RP-37.2 [1964] and are typical values, referenced at +75°F (+24°C) and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.

Dynamic characteristics Range Voltage sensitivity, typical Frequency response Amplitude response ±5%	Units g mV/g	-1 ±5000 1 See typical amplitude respo	-10 ±500 10
±1 dB typical Resonance frequency Transverse sensitivity Temperature response Amplitude non-linearity	Hz Hz Hz %	5 to 6000 (x,y-axis) 3 to 8000 (all axes) 40 000 < 5 See typical curve < 1	
Output characteristics Output polarity DC output bias voltage [2] Output impedance 3ma to 4ma Full scale output voltage Resolution (2 Hz to 10 kHz broadband) Grounding	Vdc Ω Vpk g rms	See arrows on outline drav +10.0 to +13.0@room temps <100 ±5 ≤10 000 Signal ground connected to c	0.0015 ≤ 1400
Power requirement Compliance voltage Supply current [1] Warm-up time (to reach 90% of final bias)	Vdc mA sec	+23 to +30 +1 to +4 < 2	
Environmental characteristics Temperature range Humidity Sinusoidal vibration limit Shock limit [3] Base strain sensitivity at 250 µstrain Thermal transient sensitivity	g pk g pk eq. g/µstrain eq. g/°F (/°C)	-67°F to 347°F (-55°C to +17 Hermetically sealed ±800 10 000 0.001 0.1 (0.2)	5°C)
Physical characteristics Dimensions Weight Case material Connector Mounting [4] Mounting torque	gm (oz) lbf-in (Nm)	See outline drawing 5 (0.17) Titanium, commercially pure Cpy 4 pin Microtech style side mounted Adhesive or m2.5 thread 7 (0.8)	
Calibration [5] Supplied, each axis: Voltage sensitivity Maximum transverse sensitivity Frequency response	mV/g % Hz	20 Hz to 6 kHz (z-: 20 Hz to 5 kHz (x,y	

Accessories

Product	Description	65HT-10, 65HT-100	65HT-10-R
3027AM3-120	Triaxial cable, 85° C, 3 BNC's at instrumentation end	Included	Optional
3027AVM3-36	Extension cable rated to +200°C (mates with 3027AM3)	Included	Optional
3027AHM13-XXX	Highly flexible, high strength, 200°C triaxial cable, (transducer cable, mates with 3027AM3)	Optional	Optional
2988M12	Adhesive/clip adapter	Optional	Optional
32279	Petro wax	Included	Optional
EHX431	+260°C rated adhesive	Optional	Optional
EH755	Screw, cap	Included	Included
EH761	Screw, set	Included	Included



Notes:

- current level >+4 mA may cause bias dc level shift.
- 2. +22 Vdc minimum must be available to the accelerometer to ensure 5. Maintain high levels of precision and accuracy using Endevco's factory full-scale operation at the temperature extremes.
- 3. Shock pulses of short duration may excite sensor resonance.
- 1. +4 mA max constant current level to meet specifications. Constant 4. Be careful not to apply excessive force when removing the accelerometer from structure.
 - calibration services. Call Endevco's inside sales force at 800-982-6732 for recommended intervals, pricing and turn-around time for these





