

Isotron[®] accelerometer Model 7253D



Key features

- Triaxial, low-impedance output
- 360° cable orientation
- Low profile
- Hermetically sealed
- Signal ground isolated from mounting surface
- 7253D-10-R and 7253D-100-R available as replacement sensors

Description

Endevco model 7253D is an Isotron triaxial accelerometer designed for applications requiring the measurement of shock and vibration simultaneously in three mutually perpendicular axes. 7253D is small and lightweight with a broad frequency response. The thru-hole mounting design allows for 360° cable orientation. The unit is hermetically sealed to protect against environmental contamination. The signal ground is isolated from the mounting surface by a hard anodized insulator. The accelerometer is available in two sensitivities, 10 mV/g (7253D-10) and 100 mV/g (7253D-100).

Each axis utilizes an Endevco type P-8 shear piezoelectric sensing element in conjunction with a hybrid charge amplifier to provide a low impedance output of ± 5 volt full scale in a two wire system IEPE configuration. A constant current excitation of 2 to 20 mA is required for each axis. Electrical connection is made to each axis through a 4-pin connector.

Model 7253D is ideally suited for applications where the orientation of the connector and sensitive axes are critical. Testing environments include flight testing, aircraft engine testing, industrial engine testing, missile testing, aircraft component testing, spacecraft component testing, and industrial machinery testing.



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The following performance specifications conform to ISA-RP-37.2 (1964) and are typical values, referenced at +75°F (+24°C), 4 mA, and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.

Specifications		Unite	10	100
Dynamic characteristics		Units	-10	-100
Range		g pk	±500	±50
Voltage sensitivity				
Typical		mV/g	10	100
Minimum		mV/g	9	90
Maximum		mV/g	11	110
Frequency response				
± 5%		Hz	1(0 to 6000
± 10%		Hz	2 to 10 000	3 to 10 000
± 3 dB		Hz	1 to 15 000	1.5 to 15 000
		ΠZ	1 to 15 000	1.5 10-15 000
Resonance frequency				50
Typical		kHz		50
Minimum		kHz		45
Sensitivity deviation vs. temperature	e			
at +67°F (-55°C) max/min		%		0 / -15
at +257°F (-125°C) max/min		%		+10 / -5
Transverse sensitivity		%		≤ 5
Amplitude linearity		%		< 2
Output characteristics			<u> </u>	
•				
Output polarity			Acceleration directed i	nto base produces positive output
DC output bias voltage				
Room temp +75°F (+24°C)		Vdc		2.3 to + 13.5
-67°F to +257°F (-55°C to +125°	C)	Vdc	±	7.5 to +16
Output impedance		Ω		< 200
Maximum full scale output voltage		V		±5
Residual noise				
Broadband (1 Hz to 10 kHz)		Equiv.µg rms	2000	400
Spectral		Equiv.µg/√Hz	2000	100
1Hz		Equiv.µg/\112	1500	300
10 Hz			200	50
			20	10
100 Hz			30	10
100 Hz 1000 Hz			30 10	4
100 Hz 1000 Hz Overload recovery (2X full scale)		μs	10	4 <10
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding		Signa	10	4 <10 case but isolated from mounting surface
100 Hz 1000 Hz Overload recovery (2X full scale)	10 mA)		10	4 <10
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 -	10 mA)	Signa	10	4 <10 case but isolated from mounting surface
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements	10 mA)	%	10	4 <10 case but isolated from mounting surface ±1
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1]	10 mA)	% % Vdc	10	4 <10 case but isolated from mounting surface ±1 +23 to +30
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current	10 mA)	Signa % Vdc mA	10	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise	10 mA)	% % Vdc	10	4 <10 case but isolated from mounting surface ±1 +23 to +30
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply current Supply noise Warm-up time	10 mA)	Signa % Vdc mA	10	4 <10 case but isolated from mounting surface ± 1 +23 to +30 +2 to +10 <10
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise	10 mA)	Vdc mA	10	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply current Supply noise Warm-up time	10 mA)	Signa % Vdc mA μA pk	10	4 <10 case but isolated from mounting surface ± 1 +23 to +30 +2 to +10 <10
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant	10 mA)	Vdc mA μA pk sec	10	4 <10 case but isolated from mounting surface ± 1 +23 to +30 +2 to +10 < 10 2
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100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant	10 mA)	Vdc mA μA pk sec	10 I ground connected to a -67°F to +257	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C)
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating)	10 mA)	Vdc mA μA pk sec	10 I ground connected to a -67°F to +257	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C)
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity	10 mA)	Vdc mA μA pk sec sec	10 I ground connected to a -67°F to +257	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C) etically sealed
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100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity Sinusoidal vibration limit Shock limit [2] Base strain sensitivity at 250 µstrain	24	Signa % Vdc mA μA pk sec sec g pk g pk g pk equiv g pk/μstrain	10 I ground connected to o -67°F to +257 Herme 0.13	4 <10 case but isolated from mounting surface ± 1 +23 to +30 +2 to +10 < 10 2 0.5
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity Sinusoidal vibration limit Shock limit [2]	24	Signa % Vdc mA μA pk sec sec sec g pk g pk equiv g pk/μstrain equiv g pk/°F	10 I ground connected to o -67°F to +257 Herme 0.13 0.16	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C) trically sealed 1000 5000 0.05 0.07
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity Sinusoidal vibration limit Shock limit [2] Base strain sensitivity at 250 µstrain Thermal transient sensitivity	24	Signa % Vdc mA μA pk sec sec sec sec	10 I ground connected to a -67°F to +257 Herme 0.13 0.16 0.29	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C) trically sealed 1000 5000 0.05 0.07 0.12
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity Sinusoidal vibration limit Shock limit [2] Base strain sensitivity at 250 µstrain	24	Signa % Vdc mA μA pk sec sec sec g pk g pk equiv g pk/μstrain equiv g pk/°F	10 I ground connected to o -67°F to +257 Herme 0.13 0.16	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C) trically sealed 1000 5000 0.05 0.07
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity Sinusoidal vibration limit Shock limit [2] Base strain sensitivity at 250 µstrain Thermal transient sensitivity	24	Signa % Vdc mA μA pk sec sec sec sec	10 I ground connected to a -67°F to +257 Herme 0.13 0.16 0.29	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C) trically sealed 1000 5000 0.05 0.07 0.12
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity Sinusoidal vibration limit Shock limit [2] Base strain sensitivity at 250 µstrain Thermal transient sensitivity Electromagnetic noise Physical characteristics	24	Signa % Vdc mA µA pk sec sec sec g pk g pk equiv g pk/vF equiv g pk/°F equiv g pk/°C equiv g/Gauss	10 I ground connected to o -67°F to +257 Herme 0.13 0.16 0.29 0.0001	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C) trically sealed 1000 5000 0.05 0.07 0.12
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity Sinusoidal vibration limit Shock limit [2] Base strain sensitivity at 250 µstrain Thermal transient sensitivity Electromagnetic noise Physical characteristics Dimensions		Signa % Vdc mA μA pk sec sec g pk g pk equiv g pk/μstrain equiv g pk/°F equiv g pk/°C equiv g/Gauss See o	10 I ground connected to o -67°F to +257 Herme 0.13 0.16 0.29 0.0001	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C) trically sealed 1000 5000 0.05 0.07 0.12
100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity Sinusoidal vibration limit Shock limit [2] Base strain sensitivity at 250 µstrain Thermal transient sensitivity Electromagnetic noise Physical characteristics Dimensions Weight	24	Signa Vdc mA µA pk sec sec sec g pk g pk equiv g pk/µstrain equiv g pk/°F equiv g pk/°C equiv g/Gauss See o < 10	10 I ground connected to o -67°F to +257 Herme 0.13 0.16 0.29 0.0001 utline drawing 0 (0.352)	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 < 10 2 0.5 °F (-55°C to +125°C) trically sealed 1000 5000 0.05 0.07 0.12
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100 Hz 1000 Hz Overload recovery (2X full scale) Grounding Sensitivity deviation vs. current (2 - Power requirements Supply voltage [1] Supply current Supply noise Warm-up time ±10% of stabilized bias Time constant Environmental characteristics Temp range (operating) Humidity Sinusoidal vibration limit Shock limit [2] Base strain sensitivity at 250 µstrain Thermal transient sensitivity Electromagnetic noise Physical characteristics Dimensions Weight Case material Connector Mounting Torque (recommended) Calibration Sensitivity	grams (oz) inches in-lbs mV/g	Signa % Vdc mA µA pk sec sec sec g pk equiv g pk/vF equiv g pk/°F equiv g pk/°C equiv g pk/°C equiv g/Gauss See o < 10 Titaniu 4-pin standard each axis as idem	10 I ground connected to o -67°F to +257 Herme 0.13 0.16 0.29 0.0001 utline drawing 0 (0.352) im alloy 6AI-4V d male connector with tified per outline drawi 5/8 long mounting scree	4 <10 case but isolated from mounting surface ±1 +23 to +30 +2 to +10 <10 2 0.5 °F (-55°C to +125°C) trically sealed 1000 5000 0.05 0.07 0.12 0.0006
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Prodcut	Description	7253D	7253D-R
3027AM3-120	Triaxial cable, 85°C, 3 BNC's at instrumentation end	Included	Optional
42883	Mounting screw assembly	Included	Included
EHM488	Wrench, hex key 5/32	Included	Optional
3027AVM13-XXX	Extension cable rated to +200°C (mates with 3027AM3)	Optional	Optional
C-003-CA-005-XXXX	Cable assembly 4-pin to 3 BNC	Optional	Optional
32279	Mounting wax	Optional	Optional
123	Signal conditioner	Optional	Optional
133	Signal conditioner	Optional	Optional
2775B	Signal conditioner	Optional	Optional
2793	Signal conditioner, 16 channel	Optional	Optional

Notes

- 1. +23Vdc must be available to the accelerometer to ensure full scale operation at temperature extremes
- 2. Shock pulses of short duration may excite transducer resonance. Shock level above the sinusoidal vibration limit may produce temporary zero shift that will result in erroneous velocity or displacement data after integration.
- This product is fully compliant to European Union's Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC and is eligible to bear CE mark.
- 4. 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.
- 5. Model number definition:

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<u>7253D</u> - <u>XXX</u> - <u>R</u> Indicates replacement part (omit if units are not replacements). Denotes voltage sensitivity in mV/g. -10 = 10 mV/g -100 = 100 mV/g Basic model number

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