

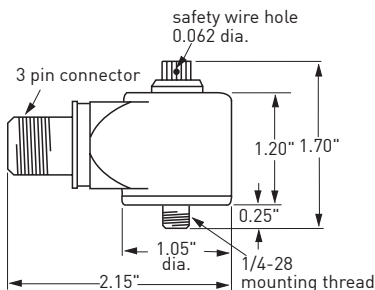


Model 797T-1 General purpose accelerometer with internal temperature sensor



Features

- Senses both acceleration and temperature
- Rugged design
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring protection
- Mounts in any orientation



Dynamic

Sensitivity, ±5%, 25°C.....	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
±5%.....	3 - 5,000 Hz
±10%.....	2 - 7,000 Hz
±3 dB	1 - 12,000 Hz
Resonance frequency.....	26 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response.....	-50°C -5%
	+120°C +5%
Temperature output sensitivity, ±5%	10 mV/K
Temperature measurement range.....	223 to 390 K (-50 to 120°C)

Electrical

Temperature sensor

Power requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 4 mA
Grounding.....		case isolated, internally shielded

Accelerometer

Power requirement:	voltage source.....	18 - 30 VDC
	current regulating diode	2 - 10 mA

Electrical noise, equiv. g:

Broadband	2.5 Hz to 25 kHz.....	600 µg
Spectral	10 Hz.....	8 µg/√Hz
	100 Hz.....	5 µg/√Hz
	1000 Hz.....	5 µg/√Hz

Output impedance, max	100 Ω
Bias output voltage.....	12 VDC
Grounding.....	case isolated, internally shielded

Environmental

Temperature range	-50 to 120°C
Vibration limit.....	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g.....	30 µg/gauss
Seal	hermetic
Base strain sensitivity	0.002 g/µstrain

Physical

Sensing element design.....	PZT ceramic / shear
Weight	135 grams
Case material.....	316L stainless steel
Mounting	1/4-28 captive socket head screw
Output connector.....	3 pin, MIL-C-5015 style
Mating connector	R6G type
Recommended cabling.....	J9T3A

Accessories supplied: #12105-01 captive screw (International customers specify mounting requirements); calibration data (level 3)

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Connections

Connector pin	Function
Shell	ground
A	accelerometer, power / signal
B	accelerometer / temperature common
C	temperature sensor, power / signal