



# Model 797LT Low frequency accelerometer with temperature sensor

## Dynamic

Sensitivity, ±5%, 25°C .....	500 mV/g
Acceleration range .....	10 g peak
Amplitude nonlinearity .....	1%
Frequency response:	
±5% .....	0.6 - 850 Hz
±10% .....	0.4 - 1,500 Hz
±3 dB .....	0.2 - 3,700 Hz
Resonance frequency .....	18 kHz
Transverse sensitivity, max .....	7% 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)

## Features

- Senses both acceleration and temperature
- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring protection

## 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 .....	12 µg
Spectral	2 Hz .....	2 µg/√Hz
	10 Hz .....	0.6 µg/√Hz
	100 Hz .....	0.2 µg/√Hz
Output impedance, max .....		100 Ω
Bias output voltage .....		10 VDC
Grounding .....		case isolated, internally shielded

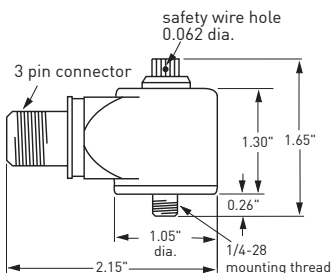
## Environmental

Temperature range .....	-50 to 120°C
Vibration limit .....	250 g peak
Shock limit .....	2,500 g peak
Electromagnetic sensitivity, equiv. g .....	5 µg/gauss
Base strain sensitivity .....	0.001 g/µstrain

## Physical

Sensing element design .....	PZT ceramic / shear
Weight .....	160 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

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



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

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