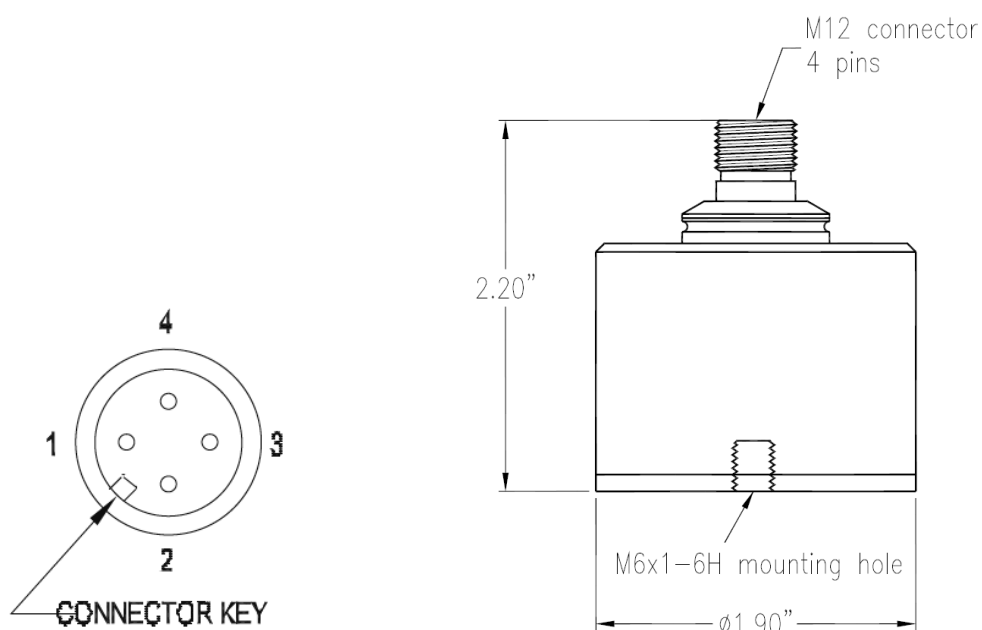


Ultra quiet, ultra low frequency, seismic accelerometer with temperature sensor 735T



Key features

- Ultra high sensitivity
- Ultra low-noise electronics for clear signals at sub micro-g levels
- Low frequency capable
- Low pass filtered to eliminate high frequencies
- Reverse wiring protection
- Manufactured in an approved ISO 9001 facility



Connections	
Function	Connector pin
ground	shell
accelerometer power/signal	1
accelerometer common	2
temperature signal (+)	3
temperature common (-)	4

Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.

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Wilcoxon Sensing Technologies
An Amphenol Company

Ultra quiet, ultra low frequency, seismic accelerometer with temperature sensor

735T



SPECIFICATIONS

Accelerometer sensitivity, $\pm 10\%$, 25° C		10 V/g
Acceleration range		0.5 g peak
Amplitude nonlinearity		1%
Frequency response	± 3 dB	0.01 - 350 Hz
Resonance frequency		700 Hz
Transverse sensitivity, max		1% of axial
Temperature response, nominal		
	-10° C	-20%
	0° C	-15%
	+65° C	+50%
TEMPERATURE SENSOR		
RTD resistance at 0° C		1000 Ω , $\pm 1\%$
Class (per DIN 60751)		Class A
Alpha value (per DIN 60751)		0.003850
Temperature range ¹		-50 to +150° C
Grounding		case isolated
Voltage source		15 - 30 VDC
Current regulating diode		1 - 10 mA
Electrical noise, equiv. g		
Broadband	2.5 Hz to 25 kHz	0.5 μ g
Spectral	2 Hz	20 ng/ $\sqrt{\text{Hz}}$
	10 Hz	7 ng/ $\sqrt{\text{Hz}}$
	100 Hz	3.5 ng/ $\sqrt{\text{Hz}}$
Output impedance, max		600 Ω at 1 mA, 100 Ω at 4 mA
Bias output voltage		8 VDC
Grounding		case isolated
Temperature range		-10 to +65° C
Vibration limit, min		10 g peak
Shock limit ²		100 g
Sealing		hermetic
Weight		380 grams
Case material		316L stainless steel
Mounting		M6x1 tapped hole
Output connector		4-pin, M12
Mating connector ³		4- or 5-socket, M12

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Contact

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Accessories supplied:

- Calibration data (level 3)
- SF6M-1 mounting stud

Notes: ¹ Temperatures in excess of 65° C may permanently damage the accelerometer sensing function.

² Special handling required due to sensitivity; protective container included.

³ Cable shield must be electrically connected to M12 mating connector threaded nut.

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