

Seismic accelerometer with temperature sensor

735T

SPECIFICATIONS

Accelerometer sensitivity, ±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	1,000 Ω, ±1%	
Class (per DIN 60751)	Class A	
Alpha value (per DIN 60751)	0.003850	
Temperature range¹	-50° to +150°C	
Grounding	case isolated	
Power requirement:		
Voltage source	15 - 30 VDC	
Current regulating diode	1 - 10 mA	
Electrical noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	0.5 µg
Spectral	2 Hz	20 ng/√Hz
	10 Hz	7.0 ng/√Hz
	100 Hz	3.5 ng/√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 limit²	100 g	
Sealing	hermetic	
Weight	380 grams	
Case material	316L stainless steel	
Mounting	M6x1 tapped hole	
Output connector	4 pin, M12	
Mating connector³	4 or 5 socket, M12	

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.

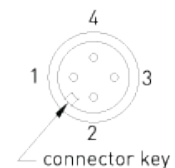
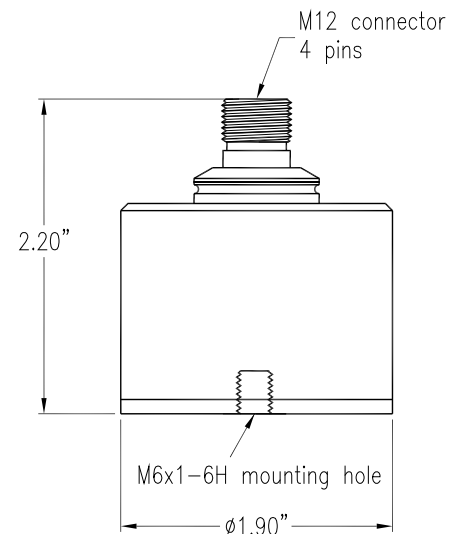
³ Cable shield must be electrically connected to M12 mating connector threaded nut.

Accessories supplied: SF6M-1 mounting stud; calibration data (level 3)



Key features

- Ultra low-frequency
- Ultra low noise electronics
- Manufactured in ISO 9001 facility



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



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