



**g** **SM103**  
Accelerometer with armored integral cable

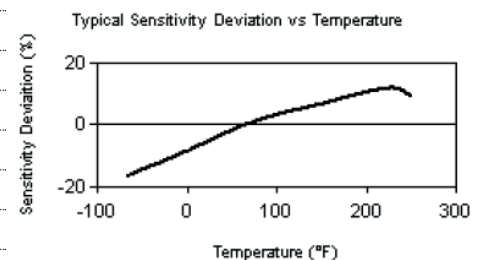


**Key features**

- Low profile
- Pivoting base
- 10 ft. armored jacketed integral cable

Sensitivity, ± 15%	100 mV/g	
Acceleration range	50 g	
Amplitude nonlinearity	1%	
Frequency response, ± 3 dB	0.5 - 10,000 Hz	
Resonance frequency	25 kHz	
Transverse sensitivity, max	7% of axial	
Temperature response	see graph	
Power requirement:		
Voltage source	18 - 28 VDC	
Current regulating diode	2 - 20 mA	
Electrical noise, equiv. g:		
Broadband	1 Hz to 10 kHz	350 µg
Spectral	10 Hz	8 µg/√Hz
	100 Hz	5 µg/√Hz
	1,000 Hz	4 µg/√Hz
Output impedance, max	150 Ω	
Bias output voltage	8 to 12 VDC	
Grounding	case isolated, internally shielded	
Temperature range	-50° to +120°C	
Vibration limit	500 g peak	
Shock limit	5,000 g peak	
Sealing	hermetic	
Enclosure rating	IP67	
Sensing element design	ceramic, shear	
Weight (without cable)	31 grams	
Case material	stainless steel	
Mounting	1/4-28 stud	
Integral cabling <sup>1</sup>	side exit, integral cable, polyurethane with stainless steel armor jacket, 10 ft. standard length	

Connections	
Function	Cable conductor color
power / signal	white
ground	black



Notes: <sup>1</sup>Other cable lengths may be specified by customer at time of order.  
Accessories supplied: mounting base; calibration data (level 2)

