

# Integral cable accelerometer

## 786F-1

### SPECIFICATIONS

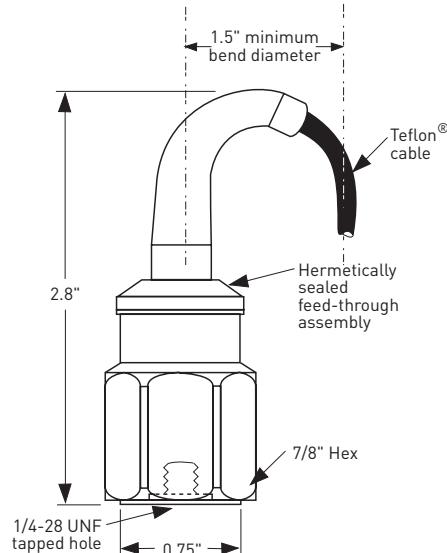
Sensitivity, $\pm 5\%$ , $25^\circ\text{C}$	100 mV/g	
Acceleration range	80 g peak	
Amplitude nonlinearity	1%	
Frequency response, nominal:	$\pm 10\%$ $\pm 3 \text{ dB}$	1 - 8,000 Hz 0.5 - 13,000 Hz
Resonance frequency	30 kHz	
Transverse sensitivity, max	5% of axial	
Temperature response:	$-50^\circ\text{C}$ $+120^\circ\text{C}$	-5% +5%
<b>Power requirement:</b>		
Voltage source	18 - 30 VDC	
Current regulating diode	2 - 10 mA	
<b>Electrical noise, equiv. g:</b>		
Broadband	2.5 Hz to 25 kHz	700 $\mu\text{g}$
Spectral	10 Hz	10 $\mu\text{g}/\sqrt{\text{Hz}}$
	100 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
	1,000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
Output impedance, max	100 $\Omega$	
Bias output voltage	12 VDC	
Grounding	case isolated, internally shielded	
Temperature range	-50° to +120°C	
Vibration limit	500 g	
Shock limit, min	5,000 g	
Electromagnetic sensitivity, equiv. g, max	70 $\mu\text{g}/\text{gauss}$	
Sealing	hermetic	
Base strain sensitivity, max	0.0002 g/ $\mu\text{strain}$	
Hydrostatic pressure	100 psi	
Sensing element design	PZT ceramic / shear	
Weight	90 grams (excluding cable)	
Case material	316L stainless steel	
Mounting	1/4-28 UNF tapped hole	
Integral cabling	J9T2A, 16 ft., stripped and tinned, shield isolated from case	

Accessories supplied: SF6 mounting stud; calibration data (level 2)



### Key features

- Usable in submerged applications up to 30 ft.
- Manufactured in ISO 9001 facility



### Connections

Function	Cable conductor
power/signal	white
common	black
N/C	shield

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

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