



# Models 786F General purpose, integral cable accelerometer



- Features**
- Rugged design
  - Corrosion resistant
  - Hermetic seal
  - Case isolated
  - ESD protection
  - Reverse wiring protection

### Dynamic

Sensitivity, ±5%, 25 °C.....	100 mV/g
Acceleration range .....	80 g peak
Amplitude nonlinearity.....	1%
Frequency response, nominal:	
±10 %.....	1 - 8,000 Hz
±3 dB .....	0.5 - 13,000 Hz
Resonance frequency.....	30 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50°C.....	-5%
+120°C.....	+5%

### Electrical

Power requirement: voltage source .....	18 - 30 VDC
current regulating diode .....	2 - 10 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz.....	700 µg
Spectral                  10 Hz.....	10 µg/√Hz
100 Hz.....	5 µg/√Hz
1000 Hz.....	5 µg/√Hz
Output impedance, max .....	100 Ω
Bias output voltage.....	12 VDC
Grounding.....	case isolated, internally shielded

### Environmental

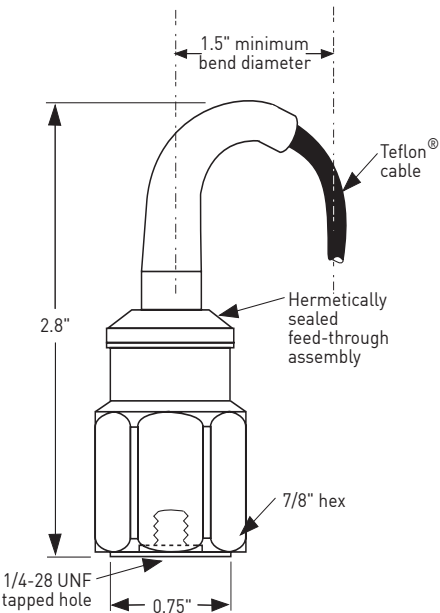
Temperature range .....	-50 to 120°C
Vibration limit.....	500 g
Shock limit, min .....	5,000 g
Electromagnetic sensitivity, equiv. g, max .....	70 µg/gauss
Sealing .....	hermetic
Base strain sensitivity, max .....	0.0002 g/µstrain
Hydrostatic pressure.....	100 psi

### Physical

Sensing element design.....	PZT ceramic / shear
Weight .....	90 grams
Case material.....	316L stainless steel
Mounting .....	1/4 - 28 UNF tapped hole
Mating connector .....	not applicable
Integral cabling .....	J9T2A, 16 ft., blunt cut

Function	786F cable conductor
Power/signal	white
Common	black
Case	shield

Accessories supplied: sf6 mounting stud (international customers specify mounting requirements); calibration data (level 2).



Wilcoxon Research Inc  
20511 Seneca Meadows Parkway  
Germantown, MD 20876  
USA

Tel: 301 330 8811  
Fax: 301 330 8873  
Email: sensors@wilcoxon.com

www.meggitt.com