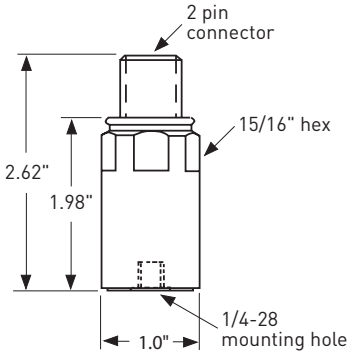
Wilcoxon Research

FireFET® Model 793-6
High temperature, general purpose accelerometer

Features
- High temperature operation
- Rugged design
- Corrosion resistant
- Hermetically sealed
- Ground isolated
- ESD protection
- Reverse wiring protection
- 150°C operation



Dynamic

Sensitivity, ±10%, 25°C			100 mV/g
Acceleration range			50 g peak
Amplitude nonlinearity			1%
Frequency response:			
±5%			4 - 5,000 Hz
±10%			3 - 7,000 Hz
±3dB			1 - 12,000 Hz
Resonance frequency			20 kHz
Transverse sensitivity, max			5% of axial
Temperature response			–50°C –5%
			+0°C +2%
			+150°C –5%

Electrical

Power requirement:	voltage source		18 - 30 VDC	
	current regulating diode		2 - 4 mA	
Electrical noise, equiv. g, (µg/√Hz):				
Broadband	2.5 Hz to 25 kHz		0.3 mg	
			25°C	150°C
Spectral at	10 Hz		10	30
	100 Hz		3	10
	1,000 Hz		2	6
Output impedance, max.			100 Ω	
Bias output voltage:				
at 25°C			12 VDC	
at 150°C			11 VDC	
Grounding			case isolated, internally shielded	

Environmental

Temperature range (mounting surface)	–50 to 150°C
Vibration limit	500 g peak
Shock limit	2,500 g peak
Electromagnetic sensitivity, equiv. g	15 µg/gauss
Sealing	hermetic
Base strain sensitivity	0.0005 g/µstrain

Physical

Sensing element design	PZT ceramic / compression
Weight	135 grams
Case material	316L stainless steel
Mounting	1/4 - 28 tapped hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J9T2A

Connector Pin	Function	Cable conductor
Shell	ground	shield
A	power/ signal	white
B	common	black

Accessories supplied: SF6 mounting stud (International customers specify mounting requirements); calibration data (level 3).

Wilcoxon Research Inc
21 Firstfield Rd
Gaithersburg, MD 20878
USA

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

www.meggitt.com

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