

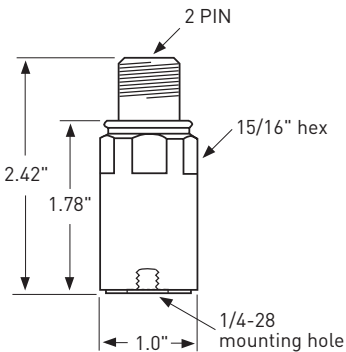


Wilcoxon Research model 793 Premium PiezoFET® accelerometer



Features

- Corrosion resistant
- Ground isolated
- Rugged design
- Hermetic seal
- ESD protection
- Reverse wiring protection
- Overcurrent protection



Dynamic

Sensitivity, ± 5%, 25° C.....	100 mV/g
Acceleration range, VDC >25V	80 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
± 5%.....	1.5 - 5,000 Hz
± 10%.....	1.0 - 7,000 Hz
± 3 dB	0.5 - 15,000 Hz
Resonance frequency.....	25 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50° C.....	-15%
+120° C.....	+20%

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	600 µg
Spectral 10 Hz	8 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 peak
Shock limit	5,000 g
Sealing.....	hermetic
Base strain sensitivity.....	0.0005 g/µstrain

Physical

Sensing element design.....	PZT / compression
Weight.....	112 g
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	J10 / J9T2A

Connections

Function	Connector pin
ground	shell
power/ signal	A
common	B

Accessories supplied: SF6 mounting stud (metric mounting available); calibration data (level 3)
Options: Intrinsic safety certifications (consult factory)

Meggitt Sensing Systems
20511 Seneca Meadows Parkway
Germantown MD 20876
USA

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

www.wilcoxon.com
www.meggitt.com

MEGGITT
smart engineering for
extreme environments
98169 Rev.H.2 11/12



Optional safety approvals

