



797V
Piezovelocity transducers

SPECIFICATIONS

Sensitivity, ±10%, 25°C	100 mV/in/sec	
Velocity range	50 in/sec peak	
Amplitude nonlinearity	1%	
Frequency response:	±10%	2.0 - 3,500 Hz
	±3 dB	1.6 - 7,000 Hz
Resonance frequency	18 kHz	
Transverse sensitivity, max	5% of axial	
Temperature response:	-50°C	-15%
	+120°C	+10%
Power requirement:		
Voltage source	18 - 30 VDC	
Current regulating diode	2 - 10 mA	
Electrical noise, equiv. in/sec:		
Broadband	2.5 Hz to 25 kHz	100 µin/sec
Spectral	10 Hz	10 µin/sec/√Hz
	100 Hz	0.8 µin/sec/√Hz
	1,000 Hz	0.1 µin/sec/√Hz
Output impedance, 4-20 mA supply	the greater of: 200 Ω or 5,000/f	
Bias output voltage	10 VDC	
Grounding	case isolated, internally shielded	
Temperature range	-50° to +120°C	
Vibration limit	250 g peak	
Shock limit	2,500 g peak	
Electromagnetic sensitivity, equiv. in/sec	50 µin/sec/gauss	
Sealing	hermetic	
Base strain sensitivity	0.004 in/sec/µstrain	
Sensing element design	PZT ceramic / shear	
Weight	148 grams	
Case material	316L stainless steel	
Mounting	1/4-28 captive socket head screw	
Output connector	2 pin, MIL-C-5015 style	
Mating connector	R6 type	
Recommended cabling	J9T2A	

Accessories supplied: #12105-01 captive socket head (metric mounting available); calibration data (level 3)

Certifications

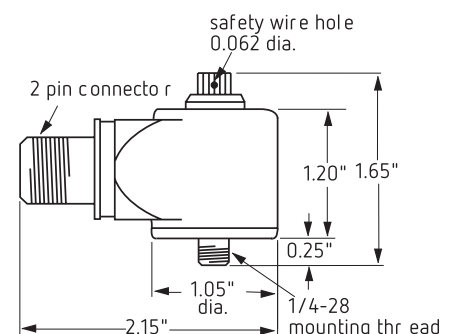
All 797V models	797VE
	Class I, II, III, T4 Div 1 Groups A, B, C, D, E, F, G Div 2 Groups A, B, C, D, F, G

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



Key features

- Certified version available for use in hazardous areas (model 797VE)
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
power/signal	A
common	B
ground	shell

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