# **General purpose accelerometer with internal temperature sensor** 797T-1





# safety wire hole 0.062 dia. 3 pin connector 1.20" 1.65" 0.25" 0.25" 1.4-28 mounting thread

Connections	
Function	Connector pin
accelerometer, power/signal	A
accelerometer / temperature common	В
temperature sensor, power/signal	С
ground	shell

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

Wilcoxon Sensing Technologies 20511 Seneca Meadows Parkway Germantown, MD 20876 info@wilcoxon.com

Tel: (301) 330 8811 Fax: (301) 330 8873 www.wilcoxon.com

Wilcoxon Sensing Technologies An Amphenol Company

**Key features** 

- Senses both acceleration and temperature
- Rugged design
- Hermetically sealed
- · Ground isolated
- ESD protection
- Reverse wiring
  protection
- Mounts in any orientation

### Certifications

CE

# General purpose accelerometer with internal temperature sensor



# 797T-1

### **SPECIFICATIONS**

Sensitivity, ±5%, 25° C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response: ± 5' ± 10' ± 3 d	% 2 - 7,000 Hz
Resonance frequency	26 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -50° +120°	
Temperature output sensitivity, ±5%	10 mV/°K
Temperature measurement range	223 to 393° K (–50 to 120° C)
Voltage source Current regulating diode	Accelerometer: 18-30 VDC Temperature sensor: 18 - 30 VDC Accelerometer: 2 - 10 mA Temperature sensor: 2 - 4 mA
Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kH Spectral 10 H 100 H 1,000 H	Hz 8 μg/√Hz Hz 5 μg/√Hz Hz 5 μg/√Hz
Output impedance, max	100 Ω
Bias output voltage	12 VDC
Grounding	case isolated, internally shielded
Temperature range	–50 to +120° C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g	30 µg/gauss
Sealing	hermetic
Base strain sensitivity	0.002 g/µstrain
Sensing element design	PZT, shear
Weight	135 grams
Case material	316L stainless steel
Mounting	1/4-28 captive socket head screw
Output connector	3-pin, MIL-C-5015 style
Mating connector	R6G type
Recommended cabling	J9T3A

### Contact

Wilcoxon Sensing Technologies

20511 Seneca Meadows Parkway Germantown MD 20876, USA

Tel: +1 301 330 8811 Fax: +1 301 330 8873

info@wilcoxon.com

www.wilcoxon.com

### Accessories supplied:

• Calibration data (level 3)

• #12105-01 captive socket head (international customers specify mounting requirements)

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

Wilcoxon Sensing Technologies 20511 Seneca Meadows Parkway Germantown, MD 20876 info@wilcoxon.com

Tel: (301) 330 8811 Fax: (301) 330 8873 www.wilcoxon.com Wilcoxon Sensing Technologies An Amphenol Company