# **Vibration Monitor**

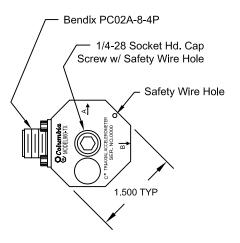
# 960TX (NSN 6680-01-380-9450)

The Columbia 960-TX is designed specifically to monitor vibration generated by Military and Commercial helicopter engines, transmissions and airframes. The 960-TX has three miniature mutually perpendicular vibration sensors mounted into a rugged machined housing which incorporates a single central mounting screw.

The 960-TX features integrated thick film electronic signal conditioning circuitry which provides high sensitivity, temperature compensation and low impedance output drive capability. The sensor configuration is ideally suited to other vibration monitoring applications such as aircraft modal and structural analysis, shipboard engine vibration monitoring, commercial machinery vibration monitoring and as the primary vibration sensor for all predictive maintenance vibration diagnostic systems.

 ENGINE, TRANSMISSION AND AIRFAME VIBRATION MEASUREMENT





Accessories Supplied
(1) Hardwood Storage Case (1) Standard Calibration Data (1) Certificate of Calibration Traceable to N.I.S.T.

#### **SPECIFICATIONS** 960TX Electrical Sensitivity 10mV/g Nominal Output Impedance <600Ω 1 to 10.000Hz (Single Axis) Frequency Range @±1dB 2 to 2,000 Hz (Mounted A,B,C Axis) Bias Voltage 8±1,5VDC Transverse Sensitivity 5% Maximum Amplitude Linearity ±1% to 100g Power Requirements 2mA±5% @ a Reference of 18-30VDC Spectral Noise @2.5Hz -116dB/√Hz Maximum <0.002RMS Equivalent (2-25kHz) Broadband <6°@2.5Hz Maximum Absolute Phase Shift Relative Phase Shift ±2°@2.5Hz Maximum Electrical Isolation Case Isolated

## **Environmental**

Temperature Range	-35 to +120°F (-37 to +48°C)
Vibration Limit	500 g Max (Sine)
Shock Limit	10,000 g Max

## **Physical**

Finish	Black Anodize per MIL-A-8625
Size	1.50" Hex x 0.900" H (38.1mm Hex x 22.86mm H)
Weight	3.17oz (90gm)
Case Material	6061 Aluminum
Electrical Interface	PC02A-8-4P
Case Mounting	#1/4-28 Cap Screw

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