

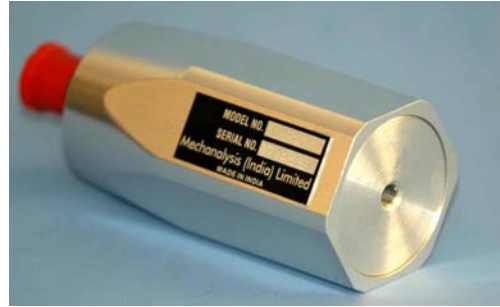
PRODUCT INFORMATION



MIL544 Seismic Velocity Sensor – Portable Measurement

Part Number M45260

The Mechanalysis model MIL544 vibration sensor is a rugged industrial vibration measuring sensor for use with portable measuring instruments. In production for over 35 years it continues to be the World's most widely used velocity sensor. Indian industry alone has more than 6000 in daily use. The model MIL544 is one of the most reliable and environmental resistant sensors in industry today. The aluminium housing is waterproof, dustproof and acceptable for use in Division 2 hazardous areas and operates up to 260°C.



The inductive seismic velocity transducer operates with a moving coil in a permanent magnetic field with eddy-current damping. It is suitable for a wide variety of manual and continuous monitoring applications due to its high output, low impedance, good frequency response and high operating temperature.

Optional accessories:

Magnetic shield (reduce sensitivity to AC magnetic field by 100:1)
Straight cable connector rated for continuous operation at 121°C
Right-angle connector rated for continuous operation at 121°C

Qty	Part Number
1	M10449
1	M43660
1	M14797

Specifications

Performance

Frequency Response: - 14 to 1,000 Hz within $\pm 8\%$ 10 – Hz 20% (average) at 21°C
Sensitivity: - 42.52 mV/mm/sec $\pm 10\%$
Impedance: - R=2k ohms, L = 0.7 H at 21°C
Maximum Amplitude: - 3175 microns Pk - Pk to 70 Hz; 30 g above 70 Hz
Transverse Response: - Less than 5% (average) 10 to 1,000 Hz

Mounting

Orientation: - Any
Mounting: - $\frac{1}{4}$ " - 28 tapped hole $\frac{1}{4}$ in depth
Grounding: - Case and signal ground common
Connector: - 2-pin Mil Spec

Environmental

Operating range: - -40°C to 260°C
Housing: - IP65, Waterproof, Dustproof

Weight & Dimensions

Weight: - 0.65 Kg
Dimensions: - 58.7mm (Diam.) x 123mm (H)

Mechanalysis (India) Ltd. continuously improves products; it therefore retains the right to change the above specification without notice