A9012 Accelerometer

Flame retardant, flexible cable, 100mv/g Industrial Accelerometer

Ø22 — 45
— 25mm A/F —
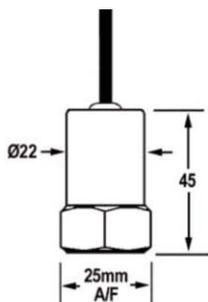
A9089: Comes otandard with 9080 and Ultra II

Use **A9012**: To order replacement accelerometer only

A9012: Accelerometer

A9073: Magnet

- **Typical Applications**
  Proven use in vibration monitoring for offline applications using commercially available data collectors and online monitoring systems in the fields of Building Services, Civil Engineering. Paper and Pulp, Mining, Metals Manufacture, Utilities, Automotive, Water and Waste Treatment, Pharmaceutical, Aerospace, etc.

- **Protecting**
  Fans, Motors, Pumps, Compressors, Centrifuges, Conveyers, Air Handlers, Gearboxes, Roll, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.

Technical Performance

Mounted Base Resonance	22kHz (nominal)
Sensitivity	100 mV/g + 10%
	Nominal 80 Hz at 22 °C
Frequency Response	2 Hz to 10 kHz + 5%
	0.8 Hz to 15 kHz + 3dB
Isolation	Base isolated
Measurement Range	+ 80 g
Transverse Sensitivity	Less than 5%

Electrical

Electrical Noise	0.1 mg max
Current Range	0.5 mA to 8 mA
Bias Voltage	10-12 Volts DC
Setting Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	>108 Ohms at 500 Volts

Environmental

|	
Operating Temperature Range	-40F to 212F
	(-40C to 100C)
Sealing	IP65
Maximum Shock	5000 g
Emissions	EN61000-6-4:2001
Immunity	EN61000-6-2:1999

Mechanical

Case Material	Stainless steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	70.8 inlb (8Nm)
Weight	3.9 oz. (110 g) nominal
Standard Cable length	3.2 feet (1 meter)
Mounting Threads	1/4 X 28 UNF Female

Part Number

A9012	Accelerometer only
A9073	Accelerometer magnet
A9089	Accelerometer and magnet

Frequency Response

Sensitivity Change dB vs Frequency Hz
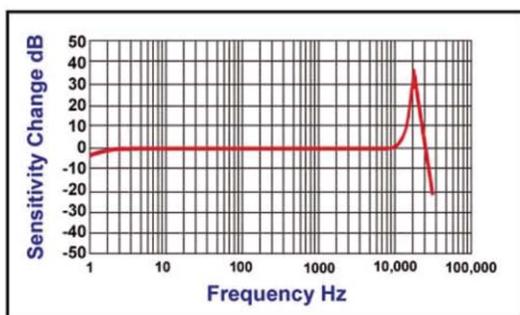
Mounting of sensor to achieve good repeatable readings.
Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)
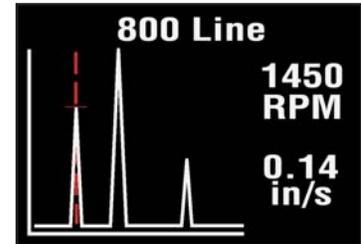
Test the TPI Advantage
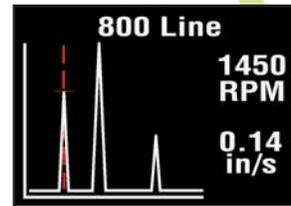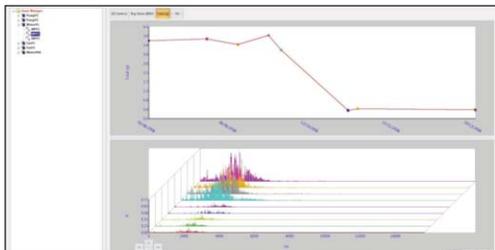
High Performance Test Instruments at the Right Price .

9070 Smart Vibration Meter

❶ Detect out of balance, misalignment, looseness and bearing defects

0.473 ISO in/s
25 BDU
0.4 g

0.14 1X | 0.21 2X | 0.12 3X
Run Speed: 1450 RPM

800 Line
1450 RPM
0.14 in/s

9080 Smart Trend Meter Analyzes, Interprets and TRENDS
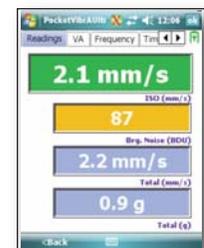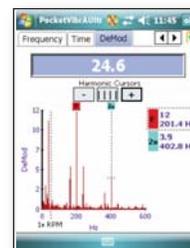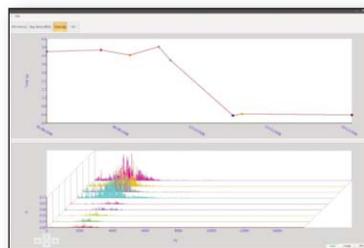
❶ Detect out of balance, misalignment, looseness and bearing defects

❷ Detects faults before breakdowns with VibTrend software

0.473 ISO in/s
25 BDU
0.4 g

0.14 1X | 0.21 2X | 0.12 3X
Run Speed: 1450 RPM

800 Line
1450 RPM
0.14 in/s

Ultra II does it all

- High spec CBM data collector • Plant and asset inspections
- Single and dual plane balancing (for dual plane balancing additional A9089 accelerometer required)

❶ Detect out of balance, misalignment, looseness and bearing defects

❷ Detects faults by identifying the cause preventing breakdowns from happening

❸ Trending and bearing analyses with C-Trend software

24.6

2.1 mm/s
87
2.2 mm/s
0.9 g