

A/140 Low Cost Industrial IEPE Accelerometer

100mV/g Output

nom. 85gm

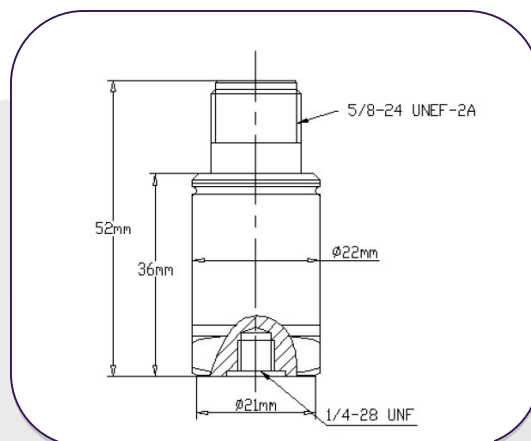
120°C Max Temp



Low cost general purpose top-entry IEPE industrial accelerometer with isolated AC output and internal shielding. Manufactured in stainless steel throughout for long term vibration analysis in harsh environments. Sealed to IP67 and includes 2-pin MIL-C-5015 military style connector.

Using a shear plate design piezoelectric ceramic sensor at its core the A/140 offers superior performance at a low price.

A/140



Applications

- Wind turbines
- Steel mills
- Oil pipelines
- High speed trains
- Machine monitoring
- Safety monitoring
- Bearing analysis

Features

- Voltage Output
- High reliability
- Maintenance free
- Corrosion resistant
- High S/N ratio
- Integral Sealing

Spectral Noise: (Typical)

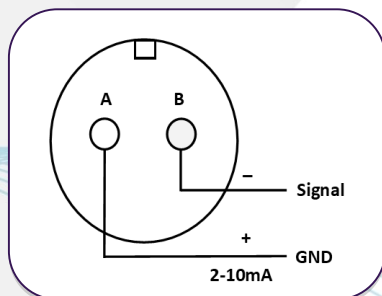
Broadband Noise: 150µgrms

(1Hz – 10kHz)

Spectrum:

1Hz	67 µg/√Hz
10Hz	25 µg/√Hz
100Hz	9.5 µg/√Hz
1kHz	5.6 µg/√Hz
10kHz	4.6 µg/√Hz

System Connection



Options:

- A/140 – top entry connector
- A/140/C – top entry int. cable
- A/140/SC – side entry int. cable

	Metric	Imperial
Nominal sensitivity ±10%	100mV/g	10.2 mV/(m/s ²)
Power supply	22-30VDC, 2-10mA Constant current	22-30VDC, 2-10mA Constant current
Typical Frequency Response	±5% ±3dB 1Hz – 10KHz 0.35Hz – 13KHz	1Hz – 10KHz 0.35Hz – 13KHz
Mounted Base Resonance	≥30kHz (typical))	≥30kHz (typical)
Dynamic Range ±	80g	784m/s ²
Transverse sensitivity	<5%	<5%
Amplitude Non-linearity	≤1%	≤1%
Operating Temperature	-50°C to +120°C	-58°F to +248°F
Temperature Sensitivity	<5%	<5%
Output Impedance (@24°C/75.2°F)	<100Ω	<100Ω
Bias Voltage (@24°C)	10–14VDC	10-14VDC
Isolation	Case isolated (≥10 ⁸ Ω), internally shielded	Case isolated (≥10 ⁸ Ω), internally shielded
Case Material	Stainless Steel	Stainless Steel
Sealing	IP67	IP67
Weight	85g	3oz
Sine vibration limit	500g Pk	4903m/s ² Pk
Shock limit	10000g Pk	98066m/s ² Pk
Base strain sensitivity	≤5%	≤5%
Connector	2 pin MIL-C-5015	2 pin MIL-C-5015
Mounting	¼-28UNF Tapped Hole	¼-28UNF Tapped Hole

Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes

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