



Easy diagnosis by means of vibration

Ultra Compact Vibration Sensor

VP-8021A



Integrates sophisticated MEMS device capable of accurate measurement up to 10 kHz!

Easy detection with IMV's unique noise cancellation function (patent approved)

Progress of AI and IoT technologies enables multiple point monitoring of vibration and automatic diagnosis of the obtained data. However the problem was ordinary MEMS type acceleration sensors were insufficient in performance, while piezoelectric vibration sensors are so expensive that limits the budget to place numbers of sensors. IMV solved the problem with its VP-8021A.

VP-8021A can provide;

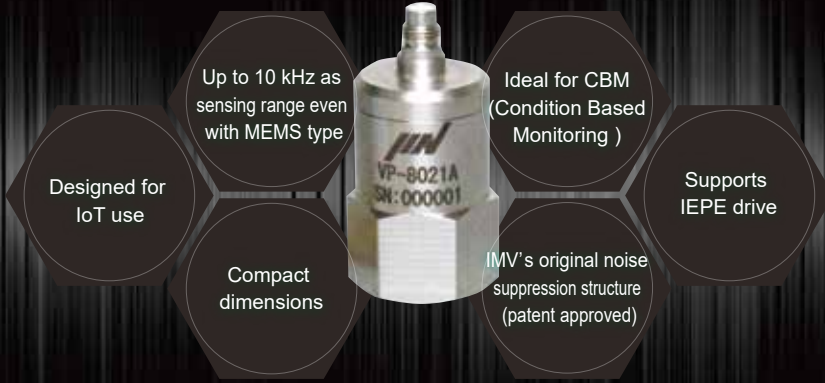
Detection capability equivalent to piezoelectric method

Reasonable price applicable to sensing control purposes

Easy installation with variety of fixture magnet

Utilizing AI and IoT technologies vibration measurement expands possibility of your benefit.

Features



Typical application



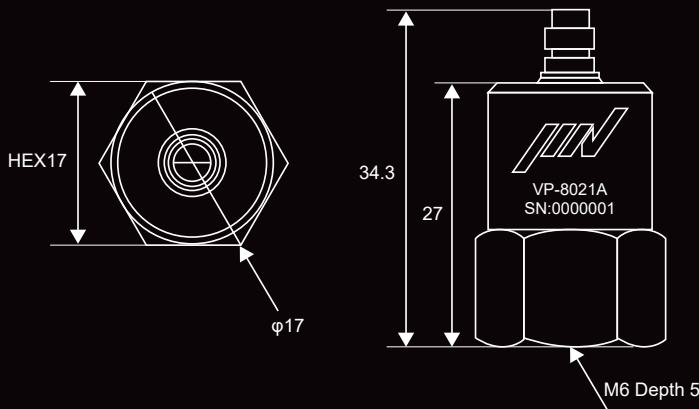
Rotating machinery. Sensors are fixed at red marked points.
*For measurement, our conversion unit corresponding to IEPE or corresponding logger is required.

Specifications

Items	Specification
Sensor classification	Case insulation IEPE type *Be sure to ground the case before use.
Acceleration sensitivity	3.9 mV/(m/s ²) ±5%
Acceleration linearity	±5%
Vibration frequency range	20 Hz to 3 kHz (±1 dB), 10 Hz to 8 kHz (±3 dB), 10 Hz to 10 kHz (±4 dB)
Noise density	464 (μm/s ²)/√Hz (10 Hz to 10 kHz)
Operating temperature range	-30 to 120 °C
Temperature drift	±3% (@25°C)
IEPE power supply	3.5 mA (Maximum24 V)
Size	Φ17 mm x 27 mm (Excluding connectors etc.)

*The specifications and design are subject to change without notice.

Dimensions



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