

Industrial measurement

Acceleration sensor for housing vibrations

Sensor for acceleration SA6200A API



Product description

Reliable and API670-compliant machine monitoring (e.g. housing vibrations caused by imbalances) is ensured by a highly sensitive, low-noise, temperature-stabilized and robust sensor technology.

The sensor's 1/4-28 UNF, 1/4-20 UNC or M6 x 1.0 screw connections allow machine-specific and reliable mounting, even in hard-to-reach places.

Continuous machine monitoring is provided via the sensor output (100 mV/g) for centralized or decentralized monitoring (e.g. Metrix Signal Conditioner 5580/SW5580).

Applications

- Fans / Cooling towers
- Drives
- Large pumps
- Compressors
- Motors, turbo motors
- Rotor blade monitoring

Benefits

- Compact, highly accurate and robust acceleration sensor for machine and system monitoring
- Extensive mounting options as well as approvals

Features

Technical data

- High accuracy accelerometer
- Meets API 670 1.) requirements for machine monitoring
- Rugged stainless steel design, IP68
- Mounting studs for various threads
- Easy wiring with 2-pin mil connector and polarity independent connection
- Integrated amplifier for low impedance

- Temperature stabilized
- Wide frequency range for many applications
- High frequency noise suppression
- Various approvals (Ex, SIL3)



Charakteristik	Technical values
Accelerometer	Piezo-electric
Frequency range (-3dB)	0,5 Hz 10kHz ¹⁾
Sensitivity	100 mV/g
Resonant frequency	13 kHz
Cross-axis sensitivity	< 5%
Accuracy	2%
Max. Acceleration	50 g pk
Noise	0,003 g rms
Voltage	18,0 28,0 VDC (IPT ^{® 2)})
Housing material	Edelstahl 316
Temperature range (operation)	-54°C+121°C
Protection class	IP68
Mounting bolt	1/4-28 UNF, 1/4-20 UNC, M6 x 1.0
Weight	ca. 100 g
1) American Petrol Institute (Machinery Protection Systems) 2) IPT® (Independent Polarity Terminal) registered trademark of Metrix Instrument Co	

Patented 'Anti-ski slope technology

Drawing



Cable set

Bahrmann GmbH

Acceleration signal conditioner

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