

SENOFEE

ITEM NO: MEM-series



Vibration/acceleration sensor

Email: info@senofee.com / <http://www.senofee.com>

General Description

MEM-series integrated vibration sensor integrates vibration speed sensor and precision measurement circuit to form a high-precision vibration measurement system, built-in isolation, wide frequency response, stainless steel housing 4-20 mA (two-wire) current output, can be directly connected to DCS, PLC Or other equipment. Product performance is stable and easy to use. It is suitable for power plants, power plants, steel plants, fans, steam turbines, coal mills, oxygen generators, generator rotors, bearing vibration measurement, rotating machinery (such as centrifuges, compressors), water pumps and motors. It is an ideal choice for factory monitoring equipment with control system.

Applications



- ★Motor
- ★Water pump
- ★Steam turbine

- ★Energator
- ★Compressor



- ★Fan
- ★Centrifuge

- ★Oxygen machine
- ★Coal mill



Features

- .strong anti-jamming ability
- .wide frequency response
- .great dynamic characteristics
- .Stainless steel shell
- .Laser welding for sealing
- .Double-layer shielding(isolation)
- .Water-proof, dust-proof, oil resistance
- .Customized pressure range

Performance

Static characteristics	
Measuring range	0-20mm/s
Sensitivity (±5%)	0.8mA/mm/s
frequency response	5 ~ 1000 Hz
Amplitude non-linearity	≤2%FSO
Output current	4 - 20mA (two wire)
Output type	Effective value
Electrical characteristics	
Operating Voltage (Constant current source)	12~30V
Grounded	Signal insulation
Insulation resistance	>500MΩ (experimental voltage 500V)
Environmental characteristics	
Operating temperature	-40~85°C
Impact limit	±4000g
Physical characteristics	
Sensitive components	MEMS accelerometer
Shell material	Stainless steel
Installation method	1/4~28 stud or magnetic base
Connector	5015 two-core connector (A input, power supply is positive B output, meter access terminal)
Connection cable	2meters standard(customizable)

Measuring direction

	Measuring range	Cable specifications	D lead length	Installation thread	Explosion-proof requirements
A1:vibration velocity (mm/s)	B1:0-20mm/s ...	C1. Direct lead C2. Direct lead (With armor) C3. Aviation plug C4. Aviation plug(With armor)	D1.1 meters D2.2 meters D3.3 meters	E1.M10*1.5 E2.M8*1.25 E3.M5*0.8 E4. Magnetic base E5. Special customization	F1. Explosion-proof F2. Non-explosion proof

Production installation notes:

(1) Installation: Use the bottom screw (1/4-28UNF×1) to install it at the measured point, if the machine is not convenient to open a hole, you can choose Magnetic base installation. Can completely replace and compatible with imported PCB/IMI and other brand products

(2) Wiring: This product adopts loop power supply and two-wire output (two wires are both power and signal wires).It needs to be connected to the PLC or DCS signal input port.

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