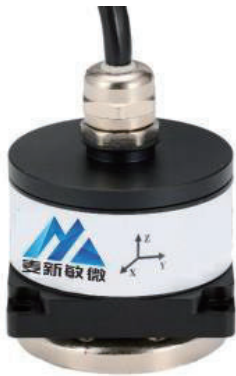


ACM-1000: MEMS DIGITAL OUTPUT VIBRATION SENSOR



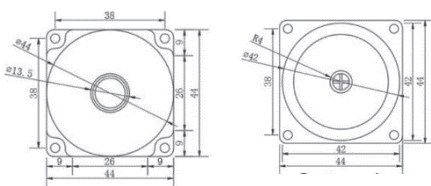
■ PRODUCT DESCRIPTION

The ACM-1000 vibration sensor is independently developed and produced by MXMW Hi-Tech Company, using digital filtering technology to effectively reduce measurement noise and improve measurement accuracy. It can be applied to multiple fields such as vibration testing, impact testing, and impact testing. The product consists of a monocrystalline silicon capacitive sensor, a temperature sensor, and a solid-state power supply (overvoltage protection); The design features sturdy structure, low power consumption, and excellent deviation stability, ensuring output reliability.

■ PRODUCT MAIN SPECIFICATION

Parameter	Conditions	ACM-1000
Measuring Axis		X, Y, Z (optional)
Accuracy	Vibration velocity	1mm/s
	Vibration angle	0.001°/s
	Vibration amplitude	0.001mm
	Vibration frequency	1HZ
Temperature calibration		-40-85°C
Measurement range	Vibration velocity (0-50mm/s), Vibration angle (0-180 °), Vibration amplitude (displacement 30mm), Vibration frequency (1-100Hz)	
Resonance frequency		2.4K HZ
Bandwidth (3DB)		500HZ
Detection cycle		<100HZ
Cut-off frequency		<100HZ
Output rate		5Hz, 15Hz, 35Hz, 50Hz can be set (RS485 does not have this function)
Output signal		RS232/RS485/RS422/TTL optional
MTBF		≥ 45000 hours/time
Impact resistance		20000g, 2ms, 1/2sine
Anti-vibration		10grms、10 ~ 1000Hz
Waterproof level		IP67
Cable		Standard 1.5m length, wear-resistant, oil-proof, wide temperature, shielded cable 5*0.2mm ²
Weight		65g (excluding packaging box)

■ PRODUCT DIMENSION



SIZE: L44*W44*H33MM

■ PRODUCT APPLICATION

- Vibration measurement of mechanical bearings
- Bridge and building vibration measurement
- Free fall
- Roller
- Fans and generators
- Railway track monitoring
- Roadbed analysis and high-speed railway fault detection