

HC-1 Micro Vibration Acceleration Sensor

Product Introduction:

The HC-1 series micro vibration acceleration sensors adopt MEMS micro electromechanical acceleration sensor chips, high-precision integrated electronic components, and use international cutting-edge advanced miniaturization manufacturing and packaging technology and production processes to finely and ingeniously package the sensor chips and circuit boards. The product has a small volume, compact structure, light weight, durability, and excellent measurement accuracy, reliability, stability, and dynamic and static characteristics, This series of products is particularly suitable for vibration table testing, aircraft and engine testing, civil engineering, geotechnical mechanics, earthquake monitoring, shrinkage testing, weapon testing, chemical explosion shock wave and many other model tests and on-site application fields.



Main technical indicators:

Range: $\pm 0.5g \sim \pm 250g$

Frequency range: $0 \sim 2500\text{Hz}$

Linear accuracy: $< \pm 0.2\%$

Environmental temperature: $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$

Storage temperature: $-65^{\circ}\text{C} \sim 165^{\circ}\text{C}$

Protection level: IP68

Impact limit: $4000g$

Standard Product Technical Specification Table:

	HC-1-1type	HC-1-2type	HC-1-3type
Vibration direction	Unidirectional Z axis	X and Y axes	X, Y and Z axes
Range	$\pm 0.5g \sim \pm 250g$		
Linear error	0.2% F.S		
Frequency	$0 \sim 2500\text{Hz}$		
Installation method	Center screw hole $\Phi 5$, Quadrangle screw hole $\Phi 3$, Magnetic seat adsorption, double-sided adhesive	Center screw hole $\Phi 5$, Quadrangle screw hole $\Phi 3$, Magnetic seat adsorption, double-sided adhesive	Center screw hole $\Phi 5$, Quadrangle screw hole $\Phi 3$, Magnetic seat adsorption, double-sided adhesive
External DAM(mm)	$25(L) \times 25(W) \times 12(H)$	$25(L) \times 25(W) \times 12(H)$	$25(L) \times 25(W) \times 25(H)$

Selection table for power supply voltage and output signal:

Supply voltage	5V	$\pm 6V \sim \pm 15V$	$9V \sim 24V$
Signal output	$0.5 \sim 4.5V$	$0 \sim \pm 5V, 0 \sim 20\text{mA}, 0 \sim 10\text{mA}$	$1 \sim 5V, 1 \sim 10V, 4 \sim 20\text{mA}$

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