

Low-Frequency Capacitance Accelerometer

Model AS101

Features:

- Low Frequency Measurements
- Temperature Feedback for Stability

Specifications:

Dynamic Characteristics

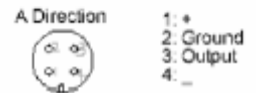
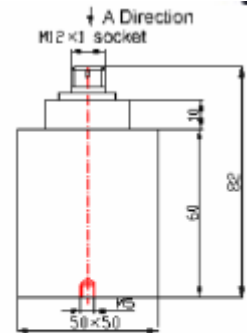
Axes Sensitivity (20±5 deg C)	~289 mV/g
Measurement Range (p-value)	10 g
Max Transverse Sensitivity	≤ 5 %
Frequency Response (10%)	1 - 320 Hz
Temperature Response	See temperature curve
Polarity	Positive

Electrical Specifications

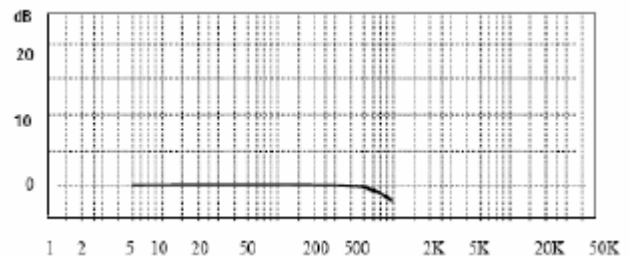
Voltage Supply	+/- 4V _{DC}
Current	+2 ~ +10 mA
Max Signal Output (P-Value)	≤ 3V _P
Output Impedance	< 100 Ω
Bias Voltage	0 V _{DC}

Environmental/Physical Characteristics

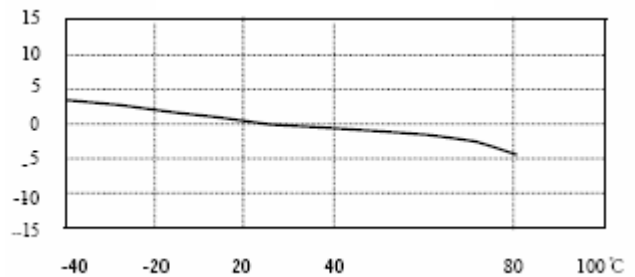
Temperature Range	-20 to +80 °C
Shock Limit	100g
Temperature Sensitivity	10 mg/ ° C (0.3Hz)
Case Strain Sensitivity	0.2 mg/ μ ε
Magnetic Field Sensitivity	10 g/T
Weight	550 g
Case Material	LY12
Mounting	M5 internal thread (bottom)
Piezo Material	PZT-5
Structure	Temperature feedback
Output Connection	M12x1 socket (top)
Included Accessories	Calibration sheet M5x1 screw RVVP Cable (2m) w/ 1 M12x1 socket



The AS101 Accelerometer is a special low-frequency structural vibration sensor based on capacitance measurement.



Frequency Response Curve



Temperature Curve

Product information:
KCF Technologies, Inc.

www.kcftech.com
112 W. Foster Avenue
State College, PA 16801
TEL: 814-867-4097
FAX: 814-690-1579

North American Sales & Support:
Scantek Inc.

www.scantekinc.com
7060 Oakland Mills Road, Suite L
Columbia, MD 21046
TEL: 410-290-7726
FAX: 410-290-9167