



# What's New at PCB®

Sensors & Instrumentation for Measuring Vibration, Acoustics, Torque, Pressure, Force, Strain, and Machinery Protection

## LIFETIME WARRANTY Products Guaranteed for Life & More!

### Microphones & Preamplifiers

#### High Temperature Acoustic Measurement Model Number HT378B02

- Operating temperature to +120 °C (+250 °F)
- Low noise floor
- Operates from ICP® sensor power
- Temperature range eliminates the need for high-priced probe microphones



**IMMEDIATE DELIVERY  
FROM STOCK**

*For Our Most Popular Prepolarized Microphones*

### Fatigue Rated Load Cells

#### Fatigue Rated Load Cells Series 1400

- Over 100 million fully reversed cycles guaranteed
- Capacities from 250 to 50k lb (1100 to 220k N)



### Signal Conditioners

#### ICP®, Charge Output & Voltage Sensor Signal Conditioner Model 482C Series

- 4-channels
- Supports ICP®, charge output, and TEDS sensors
- Incremental gain
- Ethernet and RS-232 Control



### MEMS High G Shock Accelerometers

PCB® MEMS high amplitude shock accelerometers, available in single and triaxial versions, can measure long duration transient motion, and respond to very fast rise times, typical of high-g shock events. Models offer a full active Wheatstone bridge, with 30,000 g internal mechanical stops and ± 60,000 g overshock limit, and are drop-in replacements for competitive models.

#### Common Specifications

- 0 to ±20,000 g range
- 0.001 mV/V/g
- 5 % damping
- 2-15 VDC Excitation



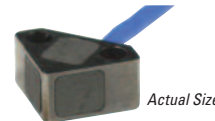
#### Model 3991A1020KG Single Axis (ITAR Controlled)

- 1.28 gm
- Titanium housing
- Integral Kevlar cable (3 ft/0.9 m)
- Through-hole mounting



#### Model 3501A1220KG Single Axis

- 3 gm
- Titanium housing
- Integral copper cable (10 ft/3.1m)
- 1/4-28 Thread



#### Model 3503A1020KG Triaxial

- 2.5 gm
- Titanium housing
- Integral copper cable (10 ft/3.1m)
- Through-hole mounting



#### Model 3501A2020KG Single Axis

- 0.15 gm
- Ceramic LCC
- Leadless chip carrier
- SMT mounting



### High Temperature

#### Dynamic Turbine Monitoring

##### Series 176

- Sensitivities to 17 pC/psi (2.5 pC/kPa)
- 20 psi (140 kPa) dynamic, 400 psi (2760 kPa) static
- High temperatures to +1,000 °F (+535 °C)
- Low-noise, in-line differential charge amplifier
- Case isolated
- CSA/ATEX Approved



#### High Temperature Charge Output Accelerometer

##### Model 357B65

- Sensitivity: ( $\pm 10\%$ ) 4 pC/g (0.408 pC/(m/s<sup>2</sup>))
- Measurement Range:  $\pm 1000$  g pk ( $\pm 9810$  m/s<sup>2</sup> pk)
- Temperature Range: -65 to 900 °F (-54 to 482 °C)
- Electrical Connector: 10-32 Coaxial Jack
- Weight: 0.80 oz (23 gm)



### Accelerometer

#### Low Temperature Coefficient Triaxial ICP® Accelerometers

##### Series 339

- Temperature coefficient of less than 0.0125% / °F (0.02% / °C)
- 10 mV/g sensitivity
- Measurement frequency to 10 kHz
- Operating temperature from -65 to +325 °F (-54 to +163 °C)
- Titanium housed and hermetically sealed in a small 0.4 in (10 mm) cube

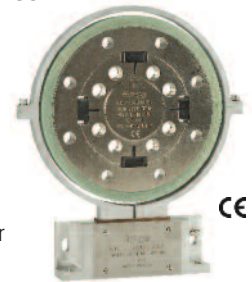


### Torque Sensors

#### TORKDISC® Rotary Torque Sensor

##### Series 5300

- DC to 8500 Hz bandwidth
- AC and DC coupled output
- Filtering with user selectable cut off frequencies
- Compact & lightweight
- Capacities from 250 to 225k in-lb (28 to 25.4k N-m)
- In-line non-contact rotary torque sensor system



### Force

#### Multi-Axis Wheel Force Transducer

##### Series 5400

- Available in a variety of sizes - passenger to heavy vehicle (30 kN to 200 kN capacities)
- Offered in light-weight aluminum, high-strength stainless steel, and titanium
- Adaptable to single, dual, and super single wheel configurations



### Protection

#### Smart Vibration Switch

##### Series 686B (patent pending)

- Universal, AC or DC-powered
- Hermetically sealed
- Built-in accelerometer
- Microprocessor controlled
- Two-wire simplicity
- Single relay
- Small footprint



EE151 Software Optional



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AS9100 CERTIFIED ■ ISO 9001 CERTIFIED ■ A2LA ACCREDITED to ISO 17025

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PCB Piezotronics, Inc. manufactures accelerometers, force sensors, load cells, microphones, pressure transducers and transmitters, strain sensors, torque sensors, vibration sensors, signal conditioners, sound level meters, noise dosimeters, cables, and accessories. This instrumentation is used for test, measurement, monitoring, and feedback control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, industrial hygiene, environmental noise monitoring and OEM applications. PCB Piezotronics offers exceptional customer service, 24-hour technical assistance, and a **Lifetime Warranty Plus** guarantee.

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