



RESEARCH AND DEVELOPMENT SENSORS AND INSTRUMENTATION



SHOCK & VIBRATION, FORCE, PRESSURE, AND ACOUSTICS

INDUSTRIES

Acoustic Architectural Design	Medical Metal, Glass, Plastic & Material Forming
Appliances	Pharmaceutical
Consumer Electronics	Package Design & Testing
Chemical	Power Tool
Environmental Testing	Production/Process Equipment
Food & Beverage	Quality Assurance
Industrial Hygiene	Semiconductor
Injection Molding	
Machine Tool	

PCB Piezotronics Inc. manufactures the largest selection of sensors and sensor accessory products worldwide. Product lines include sensors for the measurement of acceleration, acoustics, force, load, pressure, shock, strain, torque, and vibration. All sensors are backed by our Total Customer Satisfaction guarantee.

Engineers and scientists at leading businesses, research institutions, and independent laboratories around the world choose PCB® as their sensor manufacturer. In a global marketplace driven by innovation and development, PCB has a sensor for every stage of product development including R&D, production variation control, and process monitoring and protection.



At PCB, we don't just know the sensor business; we pioneered ICP® technology. For over 50 years, every sensor design and assembly is subjected to tight in-house inspection and quality control. That's why we have impeccable product performance and longevity, the expectation our customers have for every PCB sensor.

Platinum Stock Sensors* program is one of the ways we live up to our Total Customer Satisfaction guarantee. Driven by customer demand, these sensors and cables are the best fit for typical R&D, product testing, and industrial monitoring applications. Platinum Stock Sensors ship the same day and are backed by a lifetime warranty — if you are not 100% satisfied, simply send them back. We'll repair or replace them, guaranteed. No questions asked!

*For U.S. customers, orders up to 10 units placed before 4 p.m. EST ship the same day. IF NOT, YOUR SHIPPING IS FREE. For orders outside the U.S., please contact your local representative. Volume discounts are valid in the USA only

PIEZOELECTRIC ACCELEROMETERS

PCB® piezoelectric accelerometers offer tremendous versatility for shock and vibration measurements. Sensors are available with measurement capabilities down to 1µg, (for making low level, low frequency vibration measurements) and up to 100,000g's, (for measuring short duration transient shock events).

HIGHLIGHTS

- Durable - No Moving Parts
- Rigidity Imparts High Frequency Range
- Single Axis and Triaxial Configurations
- Most Sensors Hermetically Sealed in a Titanium Housing
- Screw, Stud, or Adhesive Housing



MINIATURE TEARDROP ICP®

MODEL 352A21

- ± 500 g range
- Low 0.6 gram mass
- Low 0.14" height



SHOCK ICP®

MODEL 350D02

- ± 50,000 g range
- Built-in filtering
- Electrically case isolated

APPLICATIONS

- Product Qualification Studies
- Vibration Control
- Quality Assurance (End of Line Testing)
- Package Drop Testing



HIGH SENSITIVITY ICP®

MODEL 352C33

- ± 50 g range
- Low 0.1 mg resolution
- 0.5 to 10,000 Hz frequency range



MINIATURE FLEXURAL ICP®

MODEL 393B05

- ± 0.5 g range
- High 10 V/g sensitivity
- Low 4 µg resolution

- Structural Vibration Testing
- Environmental Testing
- Floor Vibration Monitoring
- Simulated Pyroshock Testing



MINIATURE TRIAXIAL ICP®

MODEL 356A01

- ± 1000 g range
- Triaxial configuration
- Low 1.0 gram mass



TRIAxIAL ICP®

MODELS 356A45/44/43 & J356AXX

- 50/100/500 g
- Triaxial configuration
- TEDS enabled

DYNAMIC FORCE SENSORS

Quartz, piezoelectric force sensors are durable measurement devices with exceptional characteristics for the measuring of dynamic force events. Typical measurements include dynamic and quasistatic forces as encountered during actuation, compression, impact, impulse, reaction, and tension.



Assembly force monitoring using 208C Series force sensor



TRIAXIAL ICP®
260B SERIES

3-Axis, Fx, Fy, Fz
ICP®
Mtg. hardware incl.
Ranges 1k to 10k lbs

HIGHLIGHTS

Rugged and durable
High Stiffness
Very Repeatable
Wide Dynamic Range
Fast Rise Time
High Useable Frequency Range



GENERAL PURPOSE
208C SERIES

Ranges 10 to 5k lbs
Tension / compression
5/8" H x 5/8" D
General purpose



ICP® QUARTZ
MODELS 200C20 & 200C50

20k lb FS capacity & 50k lb
Impact cap incl.
1/4-28 (F) mtg. thd.
S.S. construction

APPLICATIONS

Modal Analysis
Biomechanics
Drop Testing
Component Fatigue Testing
Impact & Repetitive Applications
Material Studies



ICP® QUARTZ RING
201B SERIES

Ranges 10 to 5k lbs
Low profile design
High resonant freq.
0.31" H x 0.65" D



ICP® QUARTZ LINK
221 SERIES

Ranges 10 to 50k lb
uses 201B-207C rings
Metric & UNF mounting options
S.S. construction

PIEZOELECTRIC AND PIEZORESISTIVE PRESSURE SENSORS

Piezoelectric pressure sensors specialize in dynamic measurements with micro-second rise times, while Piezoresistive pressure sensors are suitable for dynamic measurements requiring high output and miniature size.

HIGHLIGHTS

- Fast, Micro-second Response Time
- Resonant Frequency to 500 kHz
- Measurement of Small Pressure Changes Under Large Static Pressures
- Operating Temperature Range From -320 to +750 °F (-196 to +399 °C)
- Rugged Solid State Construction

APPLICATIONS

- Fluid Borne Noise
- Pulsations, Surges, Cavitations
- Combustion Studies
- Explosive Component Testing
- Hydraulic & Pneumatics Systems
- High Intensity Sound



HIGH RESOLUTION ICP®

102 SERIES

- Ranges 50 to 10 kpsi
- Ground isolated
- Easy installation
- Rise time of $\leq 1 \mu\text{sec}$



HIGH SENSITIVITY PROBE

112 SERIES

- Acceleration compensation
- $\geq 250 \text{ kHz}$ res. freq.
- ICP®
- High sensitivity



HIGH FREQUENCY ICP®

113 SERIES

- $\geq 500 \text{ kHz}$ res. freq
- Rise time of $\leq 1 \mu\text{sec}$
- Frequency tailored
- Acceleration compensation



PRESSURE TRANSDUCER

MODEL 8510C

- 15, 50, and 100 psig ranges
- 225mV full scale output
- Rugged, miniature
- Gage



PRESSURE TRANSDUCER

MODEL 8530B

- 200, 500, 1000, and 2000 psia ranges
- Absolute reference
- 300mV full scale output
- Rugged, miniature



PRECISION PREPOLARIZED MICROPHONES

A broad portfolio of acoustic products is provided to measure sound pressure and noise. These range from the industry's first ½" low noise (to 6.5 dB(A)) prepolarized microphone and other high accuracy 377 and 378 series of IEC compliant microphones and preamplifiers to the value oriented 130F series of "array" electret microphones and preamplifiers.

HIGHLIGHTS

- Modern Prepolarized (0V)
- Traditional Externally Polarized (200V)
- Free-field, Random Incidence and Pressure Response Fields
- Wide Dynamic Range 6.5 dB(A) to 178 dB
- Wide Temperature Range -40° to 800°C
- IEC 61094 & Class 1 Compliant Models
- 378 and 377 series are A2LA and ILAC Accredited and CE marked
- Calibrations are traceable through one or more of the following: National Labs, NIST, PTB or DFM

APPLICATIONS

- Sound Power Testing
- Engine Noise Analysis
- Sound Quality
- Wind Turbine Measurements
- Material Absorption Testing
- Beamforming & Holography
- Computer Disk Drive Noise
- Noise, Vibration, Harshness (NVH) Testing
- Noise Source Identification



1/2" HIGH SENSITIVITY FREE-FIELD CONDENSER

MODEL 378B02

15 dB(A) Noise floor

3.75 Hz to 20 kHz

For open areas and anechoic
chamber tests



1/2" HIGH TEMPERATURE FREE-FIELD CONDENSER

MODEL HT378B02

Temperatures up to 125 °C

16 dB(A) to 138.5 dB

For engine analysis and exhaust
testing



1/2" HIGH FREQUENCY RANDOM INCIDENCE CONDENSER

MODEL 377A21

4 Hz to 25 kHz

20 dB(A) to 162 dB

For reverb chambers, cabin noise,
and room acoustics



1/4" SIDE-VENTED PRESSURE FIELD CONDENSER

MODEL 378A14

4 Hz to 70 kHz

50 dB(A) to 173 dB

For impedance tube, ducts,
and flush mount testing



1/4" COST EFFECTIVE FREE- FIELD ICP® ARRAY

MODEL 130F20

Audible range testing

26 dB(A) Noise floor

For beamforming and large
channel count systems



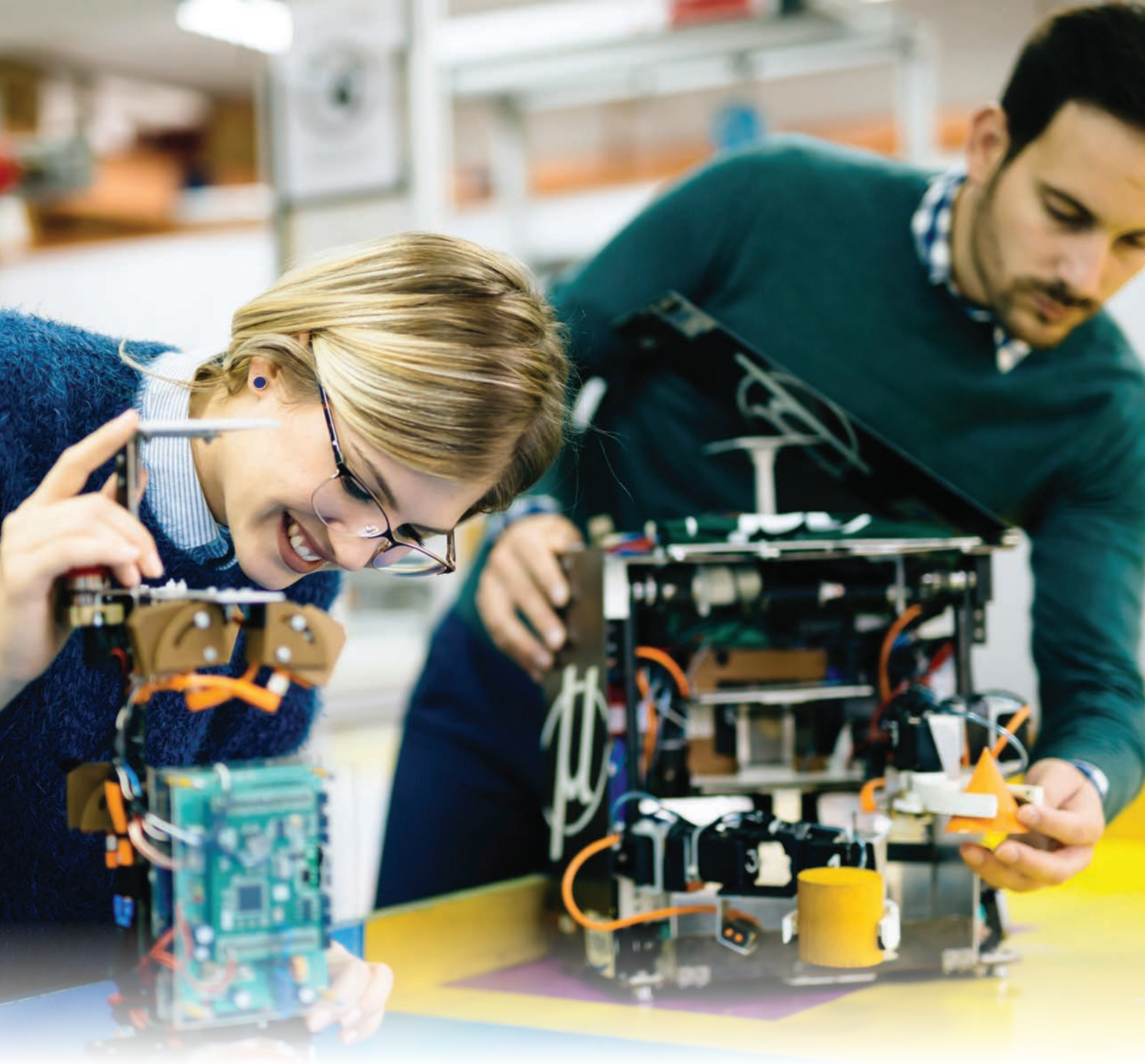
1/2" LOW NOISE FREE-FIELD CONDENSER

MODEL 378A04

Industry's first 6.5 dB(A) 0V

High sensitivity, 450 mV/pa

For disc drive, white goods,
and electric vehicle testing



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