## **Prepolarized ICP® Array Microphones**

For Consumer Goods and R&D Laboratory Testing

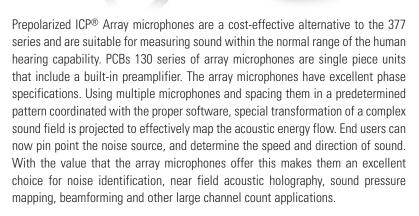
## Highlights

- Low per channel cost
- Powered by ICP<sup>®</sup> sensor signal conditioners
- Integrated preamplifier
- TEDS Standard

## Applications

- Holography
- Sound Pressure Mapping
- Beamforming
- Multichannel Measurements
- Spatial Transformation of Sounds
- Noise Source Identification
- Non-contact Defect Detection
- General Audible Range Testing





Transducer Electronic Data Sheets (TEDS) enhance the identification of each microphone. All PCB® array microphones come standard with TEDS functionality and are compliant with the IEEE 1451.4 standard.

## **Calibration & Warranty**

PCB® adheres to a systematic quality control procedure using the finest materials, assembled in a clean environment. Our microphones are hand-crafted at our 300,000 sf sales and manufacturing campus, and machined at our adjacent "State of the Art" 52,000 sf CNC machine shop - giving us greater control over quality and delivery. Each unit is quality inspected with a traceable calibration certification. Our "Best in Class" 5-year no limitation warranty is unmatched by the industry, and our microphones are backed by **Total Customer Satisfaction** no risk policy.







Mardal Normalian	100400	420520	400504	120522	120040
Model Number	130A23	130E20	130E21	130E22	130B40
Microphone Diameter	1/4 in	1/4 in [4]	1/4 in	1/4 in	1/4 in
Response	Free-Field	Free-Field	Free-Field	Free-Field	Pressure
Sensitivity (± 3 dB at 250 Hz)	14 mV/Pa	45 mV/Pa	45 mV/Pa	45 mV/Pa	8.5 mV/Pa
Frequency Response (± 2 dB)	20 to 20k Hz [1]	20 to 10k Hz [2]			
Dynamic Range	30 dBA to 143 dB [3]	30 dBA to 122 dB	30 dBA to 122 dB	30 dBA to 122 dB	32 dBA to 142 dB [3]
Polarization Voltage	0 V	0 V	0 V	0 V	0 V
Temperature Range	-14 to +122 °F -10 to +50 °C	+14 to +122 °F -10 to +50 °C	+14 to +122 °F -10 to +50 °C	+14 to +122 °F -10 to +50 °C	-40 to +176 °F -40 to +80 °C
Connector	SMB Socket	BNC Jack	10-32 Jack	SMB Socket	10-32 Jack
Notes					
[1] $\pm$ 5 dB. [2] $\pm$ 3 dB, 20 to 20k Hz $\pm$ 6 dB. [3] 150 dB Max Without (	Clipping. [4] 1/2" Preamplier [	Dia.			



3425 Walden Avenue, Depew, NY 14043-2495 USA Toll-Free in USA 800-828-8840

**24-hour SensorLine<sup>™</sup>** 716-684-0001

Fax 716-684-0987 E-mail info@pcb.com

Web Site www.pcb.com

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

© 2013 PCB Group, Inc. In the interest of constant product improvement, specifications are subject to change without notice. PCB, ICP, Modally Tuned, Spindler, Swiveler and TORKDISC are registered trademarks of PCB Group. SoundTrack LXT, Spark and Blaze are registered trademarks of PCB Piezotronics. SensorLine is a service mark of PCB Group. All other trademarks are properties of their respective owners.

TM-AC-130-1113

PCB Piezotronics Test & Measurement Acoustic products consists of microphones, preamplifiers, and accessories for noise testing, pressure mapping, holography, NVH, beamforming, arrays and general sound measurements. Additional Test & Measurement products include pressure, force, load, strain, torque, acceleration, shock, vibration, and electronics. PCB® products are used for product design and development, consumer product testing, quality assurance, civil structure monitoring, research and development, education and engineering applications. All products are backed by our **Total Customer Satisfaction** policy, which guarantees your satisfaction or your money refunded.

> Visit www.pcb.com to locate your nearest sales office