

# Instrumentation

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*Acoustics Today* welcomes contributions for “Instrumentation.” There is no charge for this service. Submissions of about 250 words that may be edited in MSWord or plain text files should be e-mailed to <acousticstoday@aip.org>. Graphics must be at least 300 dpi. Please send the text and graphics in separate files.



**PCB Piezotronics (PCB®)** has debuted Model 130D22, a combined integrated circuit piezoelectric (ICP®) free field response pre-polarized array microphone and preamplifier. The microphone is designed for measuring sound pressure levels and frequencies in the audible range, and can be used simultaneously with ICP® accelerometers to simplify test setups.

This acoustic test product is ideal for array set-ups (2-D Pressure Mapping, Holography); trending and frequency analysis; predictive maintenance on machinery fans, bearings and other industrial applications; white goods testing; NVH studies for automotive and aerospace; large channel count tests; biomedical research; or general acoustic testing. Model

130D22 also incorporates a SMB connector, which is easy to assemble, provides seamless transition for many data acquisition systems and software set-ups, and saves time when connecting multiple units, such as in a large channel array setup. When used with data acquisition systems that have 2-20 mA constant current supply, the system does not require additional power supplies. The unit has high sensitivity (45 mV/Pa), uses standard low-cost coaxial cables, and also has optional transducer electronic data sheet (TEDS) capability, which allows for ease of use, and traceability.

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**Scantek, Inc.** has announced the availability of two new noise dosimeters from CESVA, the DC-112a and DC-112k. Both comply with the American standard ANSI S1.25-1991 class 2 and enable the health and safety protection measures of workers against risks arising from exposure to noise, evaluated according to OSHA, MSHA, DoD, ACGIH, and NIOSH. Both instruments allow the use of frequency weightings (A or C), time weighting (F or S), exchange rates (3, 4, 5, or 6) and measure simultaneously using 2 programmable threshold levels. Only one measurement is needed for norms that require a double threshold. The DC-112a is a dosimeter real time spectrum analyser in octave bands (NRR + Octaves). The DC-112k (NRR) is the same as the DC-112a but without analysis in octave bands, and can be converted into a DC-112a by adding the EF-112a frequency extension module. These dosimeters have a high storage capacity (64 Mbytes) that enables the time history of the measurement to be stored. Using the Projection of Parameters mode, the exposure values (D and TWA) can be obtained without the need to make measurements during the whole exposure time.

Contact: [www.scantekinc.com](http://www.scantekinc.com)

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