Instrumentation

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Fig.1 Spherical Surface Fixture

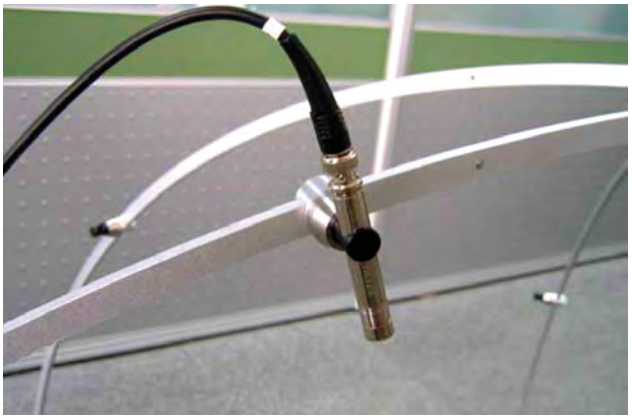

Fig. 2 Microphone Mounting

Scantek, Inc., has announced the availability of the newest product from BSWA, the MICROPHONE SPHERICAL SURFACE FIXTURE type MF720/710 which is used in the measurement of sound power level. The lightweight and portable fixture allows accurate determination of sound power level in accordance with ISO 3745, ISO 7779, and GB 6882. The MF720 is designed to mount 20 microphones over the spherical surface and the MF710 is a 10 positions version. The position and orientation of each microphone can be adjusted to fit the appropriate standards.

Contact: PeppinR@ScantekInc.com

Series 660 low-cost embeddable accelerometers from the IMI Sensors division of PCB Piezotronics (PCB®) are for continuous shock and vibration monitoring in high volume and commercial OEM applications. They offer high shock survivability, high resolution and large dynamic range. Units employ field-proven, solid-state piezoelectric sensing elements for durability and broad bandwidth performance. Choose from charge output, for high operating temperatures; or ICP®-types, with built-in signal conditioning electronics, for simplified operation and connectivity to data acquisition and vibration monitoring instrumentation.

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A step forward in a cost/effective solution for Sound & Vibration Analysis is the new dB4 hardware platform from 01 dB-Metravib (Limonest, Greater Lyon, France), featuring 4 channels 24 bit DAQ (DC-20 kHz Full Frequency range) plus Tacho and Ext. Trigger inputs. dB4 offers parallel real time processing and recording, applications oriented processing tools, data import/export capabilities, and TCP/IP commands on open Software platform for customizable development.

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Scantek, Inc., a leading distributor of sound and vibration instrumentation, and the first S&V instrument calibration laboratory accredited by NVLAP (NIST), has announced a new tapping machine from Norsonic. The rugged N-277 Tapping machine is used for making standardized impact noise tests (footfall noise) in laboratories and in buildings as set out in international and national standards.

- Impact sound transmission testing according to ISO140 part VI, VII and VIII, ASTM E-492 and ASTM E-1007
- Built in self check of hammer fall speed, and tapping sequence for automatic calibration of major components.
  > A crystal controlled servo system ensures the correct tapping frequency is maintained at all times and temperatures.
  > A level gauge mounted on the top helps the user to align the unit when adjusting the fall height.
  > The tapping machine continually monitors each hammer with a laser sensor to measure the impact velocity to ensure that the energy imparted into the test floor is correct hence the effects of any friction or misalignments are immediately apparent. Each hammer has a LED indicator on the front panel that indicates when the impact velocity and tapping frequency are within the requirements of the standard.

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