NetdB™
Pro Series

Product Data

PRO-250: Sound Power with ISO 3741/4/5/6

Get the sound power of your products!

To make an easy job of sound power measurement according to ISO3741 in reverberant room, ISO3744 in normal rooms, ISO3745 in semi anechoic and anechoic environment, ISO3746 in external open space, our PRO-250 12ch system offers the ideal turn-key solution:

- Easy measurement set-up even for beginners
- User oriented Graphical Interface
- High measurement and calculation capabilities in a few clicks
- Possibility to control the measurement at a distance from the set-up (LAN or WLAN)

PRO-250

Key Features...

Automatic measurement and Reporting
- Measurement of Background level, SPL, Power level
- Data Reloading and editing at any time
- Curves copy/paste
- Word Label for certification
- Multi-channel Data storage in a specific Data base
- All data: sound pressure, background, power levels possibly exported in HTLM format
- Word report and certification label document

A complete set of tools for data management
- Full Predefined measurement configurations for each standard
- Pre definition for number of microphones, meshing, extra-sensors
- No need to read the full documentation to launch the first test.
- Sensors distribution automatically managed during the acquisition
- Reverberation data input
- Create measurements sequence w/out individual weighting coefficients

Options
- Moving sources according to CE2000/14
- Tonalness and impulsiveness following the ISO7779 and ECMA074 standards
- Expert mode including narrow band spectra, measurement data analyses exportation in *cmg* files, hearing threshold level in the tonality analysis.

Applications:

Industrial Machineries manufacturers

Research laboratories

Industrial consulting offices

Certification authority

Construction Machines

Household appliances

AREVA

PRO-250 Technical Specifications

Features	PRO-250	Features	PRO-250
NetdB-DAQ12 Hardware PC Link (Type/seed): Storage: Base channel numbers: Maximum throughput rate: Channel input connectors: Signal output: Digital Input/Output: Digitization: Sampling Frequency:	▶ Ethernet 100MBits connector RJ45 and 2 x USB II sockets (Rear panel) ▶ 100 GB HDD (12 hours of continuous measurement @ 12 channels 51.2KHz 24bit) ▶ 4, 6, 8, 10, 12 up to 127 ▶ 12 channels units can be chained12 Channels @ 51.2kHz 24bit on each NetdB-DAQ12 ▶ BNC with high rigidity frame ▶ 2 x BNC connectors ▶ RCA connector for SPDIF In/Out ▶ 24 bits linear ▶ 51.2kHz, 25.6kHz, 12.8kHz, 400Hz	**Environmental** Operating temperature: Storage temperature/humidity/Pressure: Operating position: Vibration resistance: Shock resistance: Vibration class: Noise emission: EMI: Safety:	▶ 0°C to 60°C ▶ -10 to 50°C, 10 - 90% RH (no condensation), 500 - 1060 hPa ▶ Horizontal and Vertical ▶ 10ms-2 (9-200Hz), 3mm (2-9Hz) operating ▶ 250ms-2 (2ms) operating ▶ EN60721-3-4 class 4M5 ▶ LWA 49dBA with fan running, LWA 33dBA fan off, software selectable (ISO7779) ▶ EN55011, EN55014, EN61000-4.2, EN61000-4.3, EN61000-4.4, EN61000-4.5, EN61000-4.6, EN61000-4.11 ▶ UL3101-1; CSA C22.2 No.1010.1; EN 61010-1 A1+A2
Analog input Characteristics Input impedance: Input range: Maximum allowable voltage: Sensor power supply: Anti-aliasing low-pass filter cut: Dynamic range: External trigger:	▶ 1MOhms ▶ 10V, 1V, 100mV rms ▶ -20/+30V peak ▶ IEPE & TEDS (IEEE1451.4) compliant ▶ DC, AC 0.3 Hz, AC 20 Hz ▶ 105dB ▶ BNC connector	**Computer (min. configuration)** OS: PC Processor: RAM: Ports: **Physical** Dimensions: Weight:	▶ MS Windows XP PRO™ ▶ Pentium II+, 600+ MHz ▶ 512+ Mb ▶ Ethernet ▶ 250mm(W) x 85mm(H) x 263mm(D) excluding projections ▶ 3.5kg
Power supply Battery: Main adaptor: Power consumption: Car adaptor supplied:	▶ Internal NiMH 4000mAH, 1H45 continuous operation 12 channels ▶ External Main Adaptor 100/240VAC - 50-60 Hz ▶ 20W ▶ DC 9-18V with jack		

Features	PRO-250
Standards supported:	▶ ISO3741 for reverberant rooms, ISO3745 for semi–anechoic rooms, ISO3744 and ISO3746 for semi –anechoic non prepared rooms and free field conditions. Printed results and export of diagrams and numerical values in most common Windows forms Spectral analysis. Customizable Report.
Operational capabilities:	▶ Follow Wizard for a fast definition of the tests configuration, Define automatic and specific meshing, Use of customized reverberation laws, Create sequence of measurement, Apply weighting coefficients on each sequence, Switch between the tests results for easy comparisons, Calibration (manual and automatic modes), Dynamic range control.
Database & Export capabilities:	▶ Creation of a tests database, Background level, SPL Power level, Any results exportable in HTML format, Curves copy/paste, Word Label for certification, Word report: information on test conditions, measured values of pressure (SPL, background noise) and the power level.
Data edition:	▶ SPL on each microphone (global LIN & A, versus frequency); Average SPL (global LIN & A, versus frequency); Delta Level between the SPL and the background noise (global LIN & A, versus frequency); Sound power (global LIN & A, versus frequency) 1/3 octave and narrow band spectra.
Graph display:	▶ Curves versus frequency; Global values (LIN, A); Cursors; Curves superimpositions
Software options:	▶ CE2000/14 for pass-by power in outdoor conditions; ECMA074 and ISO7779 for tone and impulse detection; Expert mode including narrow band spectra, measurement data analyses exportation in cmg files, hearing threshold level in the tonality analysis

Ordering Information:

NDB1002000: NetdB12 unit composed of 12 channels acquisition front-end, AC/DC/IEPE inputs, headphones and SPDIF outputs, Patented Ethernet protocol, 100GB hard disk.

SFA4067000 / SFA4073000: dBPOWER: Sound Power Software Multiple Channel Support - with one license up to 12 channels - 1/3 octave and parallel signal recording - Manual Reverberation Time data input - Automatic calibration sequence - includes ISO3744, ISO 3745 and ISO 3746 SP Measurements.

Transducers and accessories:
Up to 10 microphone sets assumed as part of your own test equipment.
This hardware is delivered within a dedicated package of the NetdB Pro-Series: **NetdB PRO-265**

NetdB™