KEY BENEFITS

NetdB DAQ12 represents the last generation of Data Acquisition (DAQ) system for Acoustic & Vibration Applications. Also, a 32 channels version (NetdB32) is available and complete the 01dB-METRAVIB DAQ range.

These systems are cost-optimized and can be mixed and chained with simple and low-cost Ethernet cables. So, This DAQ chaining structure allow the use of a large number of acquisition channels from 4 to 2048 channels thanks to a patented Ethernet connection for data synchronization. The first network sensor is born!

NetdB DAQ12 can be proposed with 4, 8 or 12 channels with firmware adaptation.

NetdB DAQ12 is a Data Acquisition Front-end for PC-based solutions. The distance between NetdB12 and PC computer is up to 100m (Ethernet copper cable).

NetdB DAQ12 can be used as a stand-alone Recorder thanks to a Wifi PDA remote control.

NetdB DAQ12 is supplied with an internal 60GBBytes Hard-Disk giving 7 hours recording with 51200 sampling frequency, simultaneous 24 bits digitization on 12 channels.

- External modularity (Ethernet connection)
- Patented Ethernet Acquisition synchronization protocol
- Up to 100m between DAQ unit (copper cable)
- Close to transducers (transducer cables expensive!)
- Embedded PC with HDD
- Stand-alone or PC Front-end
- USB connectivity for WIFI or Memory extension
- Labview compatible
- Built-in batteries
- Special inputs extension slots on rear panel
- Compatible with all 01dB-METRAVIB NVH applications software (dBFA, dBVISION…)
- …

KEY FEATURES

- 12 channels – 24 bits – AC/DC/IEPE - up to 51.2 kHz sampling frequency
- 2 analog BNC output for generation, 1 analog Jack Stereo output for headphones and one digital (SPDIF) output
- 4 and 8 active inputs channels version available
- Stand-alone signal recorder with external remote control and internal 60GB HDD
- General Purpose NVH analyzer with simultaneous multi-processing capabilities (FFT, 1/n Octave, Order analysis and tracking, Signal recording, Statistics, Acoustic and Vibration Overall values …)
- Sound Power and Sound imaging
- Sound Quality
**Inputs**
Number of channels: 12 BNC connectors for dynamic channels (two are high frequency tachometer input hardware compliant – 12 MHz)
Digitization: 24 bits
Coupling: AC / DC / AC with IEPE power supply
Ranges:
- -20 dB: 14.1 V peak or 10 V RMS
- 0 dB: 1.41 V peak or 1 V RMS
- +20 dB: 141 mV peak or 100 mV RMS
SNR: > -105 dB RMS of the full scale
Trigger: TTL input

**Sampling frequency**
3 sampling frequencies: 12.8 kHz, 25.6 kHz or 51.2 kHz
Same sampling frequency on each channel.
If several NetdB units are networked: same sampling frequency on each channel of each unit.

**Patent N° FR0402086 – Ethernet Data Synchronization**

**Outputs**
Number of channels: 2 BNC outputs
1 Jack for headphones
1 SPDIF digital audio outputs
Signal Generator: White noise on the same frequency bandwidth as the acquisition
Wave signals downloaded from the computer
Level: Up to 20 V peak.

**Power supply**
Power: 20 W
Voltage: 12 to 14 VDC
Max current: 3.5 A
Battery life: 2 hours
Adapter: AC 110 V / 250 V

**Dimensions**
H*W*L: 85 mm * 250 mm * 263 mm
Weight: 3.5 kg