



A4400 - VA4 Pro

The fastest 4 channel vibration analyzer



Adash

... Your best partner for vibration diagnostics



A4400 VA4 Pro - The fastest 4 channel vibration analyzer

The A4400 - VA4 Pro is a unique instrument for machinery vibration diagnostics. The A4400 - VA4 Pro includes modules for analysing, data collecting and the recording of vibration signals. The instrument is enhanced by modules for dynamic balancing, measurement of run up and cost down, acoustic measurement mode, monitoring and control of lubrication process and listening to vibration signals by the stethoscope feature. The instrument is equipped with an expert system developed by Adash, that automatically detects machinery faults.

The A4400 - VA4 Pro is designed for engineers, technicians and researchers dealing with machinery and structural diagnostics as well as dynamic balancing of rotating machinery.



Expert System includes:

- Automatic detection of machine fault
- ISO 10816-3 included
- Bearing database included

Data processing:

- FFT 3 276 800 lines in real time
- Frequency range up to 90 kHz
- Envelope analysis
- Order analysis
- ACMT - very low speed bearing analysis
- User defined frequency bands



Industrial design:

- Heavy-Duty aluminium case
- Large colour display

A4400 VA4 Pro - The fastest 4 channel vibration analyzer

Input channels:

- 4 AC, ICP® (On/Off), +/- 12 V pp
- 4 DC process values, +/- 24 V
- 1 TACHO

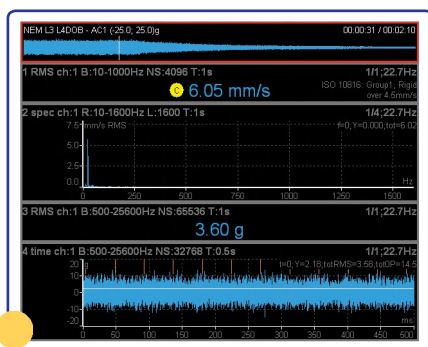
USB 2.0:

- High speed data transfer



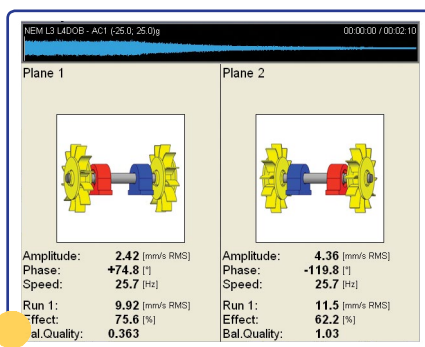
A/D conversion:

- Conversion of signal 24 Bit
- Signal processing 64 Bit
- Dynamic 120 dB
- Auto-Gain less

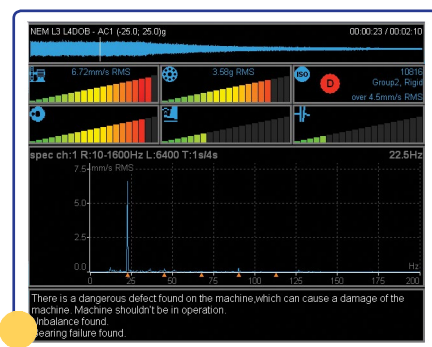


ANALYZER:

- 4 channels simultaneously



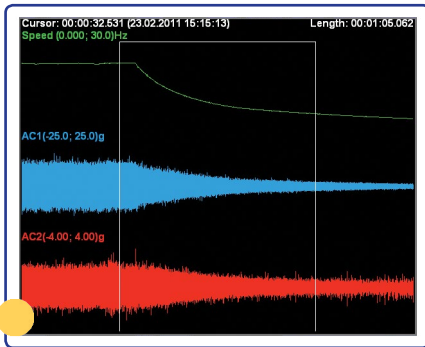
BALANCER



EXPERT SYSTEM:

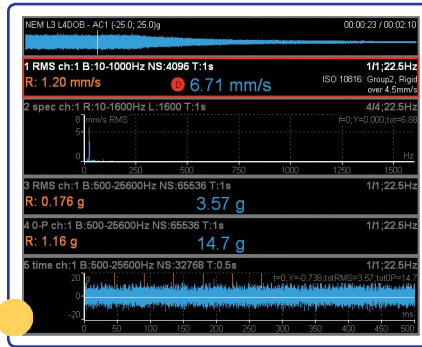
- Automatic fault detection





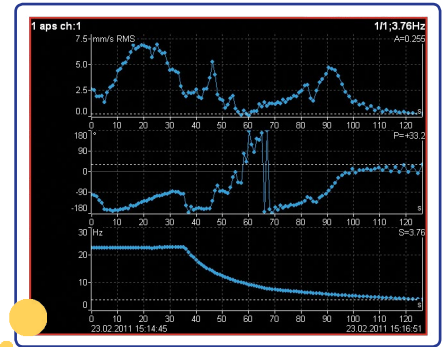
RECORDER:

- 4 channels recording
- 35 hours signal recording

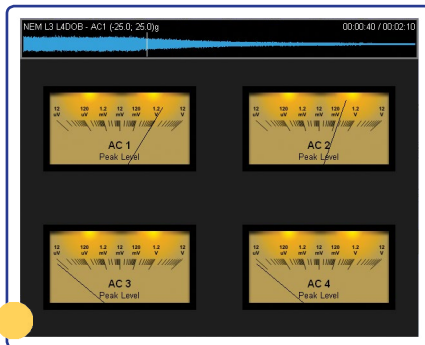


ROUTE:

- 8000 measuring points
- New DDS 2014 software

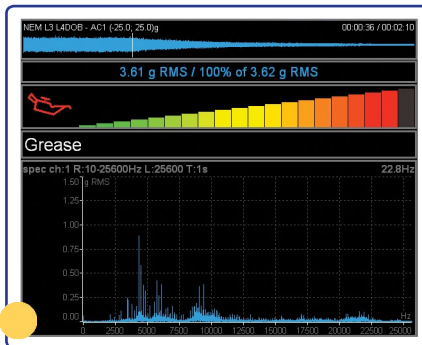


RUN UP/COST DOWN



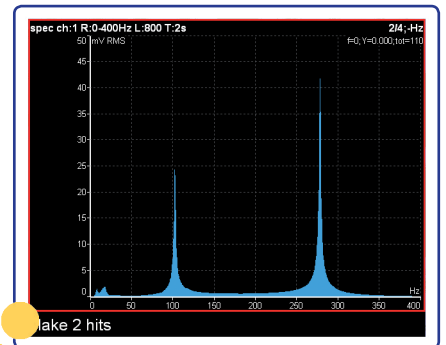
STETHOSCOPE:

- Listening of vibration signal

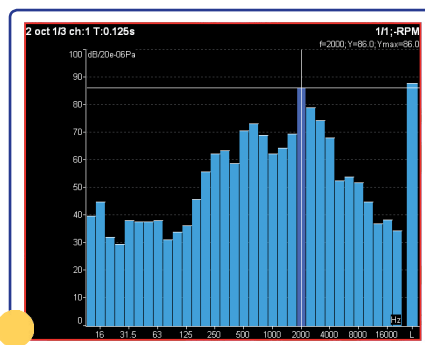


LUBRI:

- Monitoring and control of lubrication process



BUMP TEST



OCTAVE ANALYSIS

Keep your machinery
in a good condition



Adash 4400 – VA4 Pro Technical Specifications:

Input channels:	• 4 AC, ICP® power supply on/off • 4 DC for process values • 1 TACHO for external trigger	Data processing:	• FFT real time analysis • DEMOD - ENVELOPE analysis • ACMT - low speed bearing analysis • order analysis • user band pass analysis • RPM measurement • DC measurement • Orbit measurement
Input range:	• AC +/- 12 V peak-peak • DC +/- 24 V		
AD conversion:	• 24 bit, 64 bit internal signal processing No AutoGain function!		
Dynamic range S/N:	• 120 dB	Signal Recorder:	• 64 kHz sampling frequency • 4 Ch memory consumption 3 GB/hour • 4 Ch total recording - 35 hours
Frequency ranges:	• max. 90 kHz (1 Ch, 196 kHz sampling) • max. 25 kHz (4 Ch, 64 kHz sampling) • min. 25 Hz (4 Ch, 64 Hz sampling)	Trigger:	• manual, external, signal level, time • use for signal recording trigger • speed change, time interval
Sampling mode:	• fully simultaneous for 4 channels	Display:	• colour 800 x 600 pixels, LCD
FFT resolution:	• min. 100 lines • max. 3 276 800 lines	Communication:	• USB
Unit modes:	• Analyser - analytic measurement • Data-collector - route measurement • Balancer - on-site balancing • Run up / Coast down measurement • Recorder - signal recording • Stethoscope • FASIT -expert system for fault detection • Octave analyzer • Bump test	Temperature range:	• -10°C to +50°C
Processor:	• Intel Atom 1,6 GHz	Power:	• battery 5 hours operation, AC 230 V
Memory, Route:	• 120 GB, max. 4 GB for one route, number of routes is limited by free memory only	Case:	• Aluminium Heavy Duty
		Size & Weight:	• 230 x 140 x 60 mm • 2200 g



Adash, spol. s r.o.
Hlubinska 1379/32
702 00 Ostrava
Czech Republic



e-mail: info@adash.com
tel.: +420 59 623 2670
+420 59 623 2687
fax.: +420 59 623 2671

www.adash.com