



A4400 VA4 PRO

4-CHANNEL VIBRATION ANALYZER

MASTER THE LANGUAGE OF YOUR MACHINERY



A4400 VA4 Pro

THE FASTEST 4-CHANNEL VIBRATION ANALYZER



- > Adash expert system for automatic machine fault detection
- > Large colour display



4 channel signal recording

The A4400 - VA4 Pro is a unique instrument for machinery vibration diagnostics.

The A4400 - VA4 Pro includes modules for analysing, data collecting and vibration signal recording. The instrument is enhanced by modules for dynamic balancing, measurement of run up and coast down, acoustic measurement mode, ultrasound measurement, monitoring and control of lubrication process and listening to the vibration signal with the stethoscope feature. The instrument is equipped with an expert system developed by Adash, which 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

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



DATA PROCESSING

- › FFT 3 276 800 lines in real time
- › Frequency range up to 90 kHz
- › 35 hours recording of 4 channels
- › Demodulation - envelope analysis, Order analysis
- › ACMT - low speed bearing analysis
- › User defined frequency bands



TOP PANEL

INPUT CHANNELS

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

A/D CONVERSION

- › 24 Bit A/D conversion
- › 64 Bit signal processing
- › 120 dB dynamic range
- › No Auto-Gain

USB 2.0

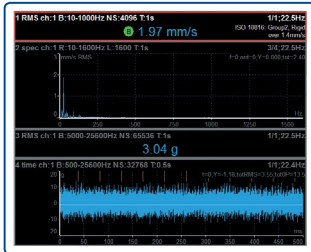
- › High speed data transfer

HEADPHONES

- › Listening to vibration signal

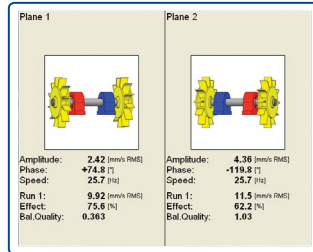


A4400 VA4 Pro MEASUREMENT MODES



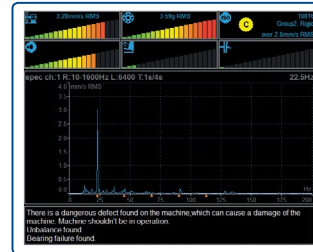
ANALYZER

- › 4 channels simultaneously



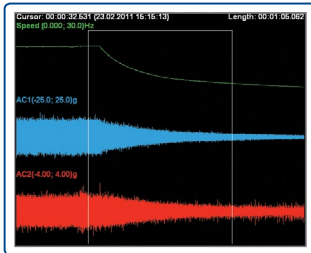
BALANCER

- › Intuitive graphical balancing procedure



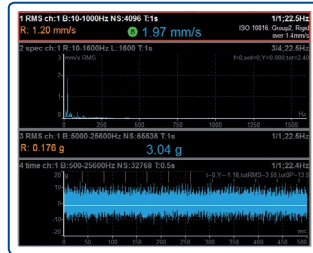
EXPERT SYSTEM

- › Automatic fault detection



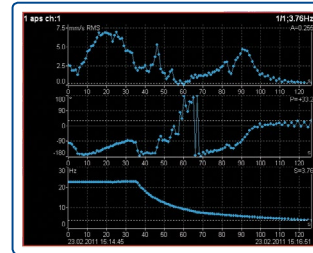
RECORDER

- › 4 channels recording
- › 35 hours signal recording



ROUTE

- › 8000 measuring points
- › DDS software

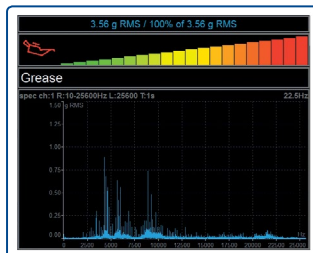


RUN UP/COAST DOWN



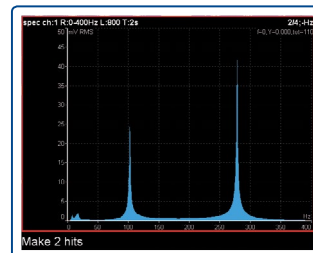
STETHOSCOPE

- › Listening of vibration signal

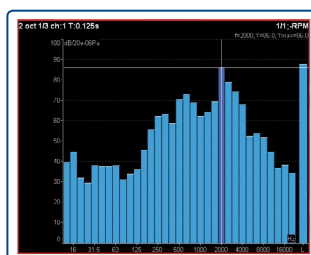


LUBRI

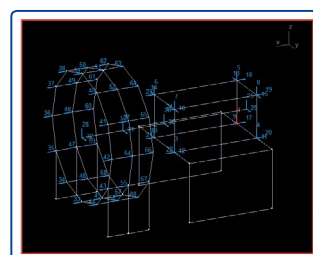
- › Monitoring and control of lubrication process



BUMP TEST

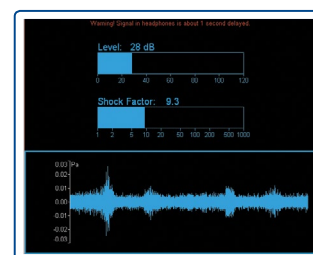


OCTAVE ANALYSIS



ADS

- › Animated deflection shapes



ULTRASOUND



A4400 VA4 PRO TECHNICAL SPECIFICATIONS:

Input channels:	4 AC, ICP® power supply on/off 4 DC for process values 1 TACHO for external trigger
Input range:	AC +/- 12 V peak-peak DC +/- 24V
AD conversion:	24 bit, 64 bit internal signal processing No AutoGain function!
Dynamic range S/N:	120 dB
Frequency ranges:	Maximum range: 1 Hz - 90 kHz (1 Ch, 194 kHz sampling) Maximum range: 1 Hz - 25 kHz (4 Ch, 64 kHz sampling) Minimum range: 1 Hz - 25 Hz (4 Ch, 64 Hz sampling)
Sampling mode:	Fully simultaneous for 4 channels
FFT resolution:	Min. 100 lines Max. 3 276 800 lines
Unit modes:	Analyzer - analytic measurement Data collector - route measurement Balancer - on-site balancing Run up/Coast down Recorder - signal recording Stethoscope FASIT - Expert system for fault detection Octave analyzer Bump test ADS - Animated Deflection Shapes Ultrasound
Processor:	Intel Atom 1.6 GHz
Memory, Route:	120 GB, max. 4 GB for one route, number of routes is limited by free memory only
Data processing:	Real time FFT DEMOD - ENVELOPE analysis ACMT - low speed bearing analysis Order analysis User band pass analysis RPM measurement DC measurement Orbit measurement
Signal recorder:	64 kHz sampling frequency 4 Ch memory consumption 3 GB/hour 4 Ch total recording - 35 hours
Trigger:	Manual, External, Signal level, Time Use for signal recording trigger Speed change, Time interval
Display:	Colour 800 x 600 pixels, LCD
Communication:	USB
Operating temperature range:	-10°C to +50°C
Power:	Battery 5 hours of operation, AC 230 V
Case:	Aluminium heavy duty
Size & Weight:	230 x 140 x 60 mm, 2200g



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