A4400 - VA4 Pro

The Fastest 4-Channel Vibration Analyzer





... 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. It is capable of analyzing, data collection, and recording vibration signals. The instrument is enhanced with modules for dynamic balancing, measurement of run up and coast down, acoustic measurement mode. monitoring and control of the lubrication process, and listening to vibration signals with the stethoscope feature. The instrument is equipped with an expert system developed by Adash that can automatically detect 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 faults
- ISO 10816-3 included
- Bearing database included

Data processing:

- FFT 25 600 line in real time
- Frequency span up to 76.8 kHz
- Envelope analysis
- Order analysis
- ACMT very low speed bearing analysis
- User defined frequency bands

35 hours of signal recording 4 channels simultaneously 25 600 Hz frequency range Real Time FFT 25 600 lines



Industrial design:
- Heavy-Duty aluminum case
- Large color 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

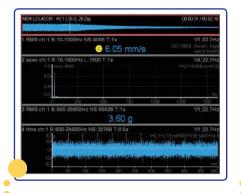
USB 2.0:

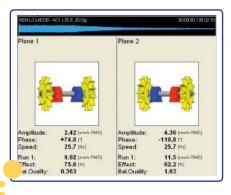
- High speed data transfer



A/D conversion:

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







ANALYZER:

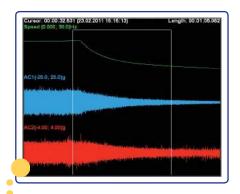
- 4 channels simultaneously
- 25 600 FFT lines

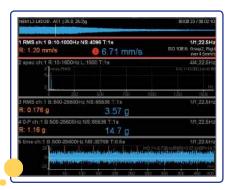
BALANCER

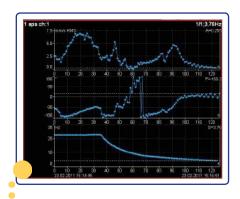
EXPERT SYSTEM:

- Automatic fault detection









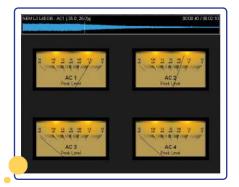
RECORDER:

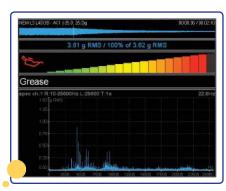
- 4 channels recording
- 120 GB memory

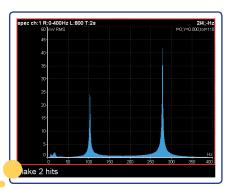
ROUTE:

- 8000 measuring points
- New DDS 2014 software

RUN UP/COAST DOWN





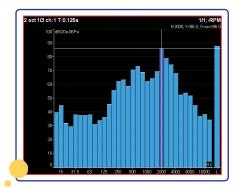


STETHOSCOPE:

- Listening of vibration signal

LUBRI:

 Monitoring and control of lubrication process **BUMP TEST**



OCTAVE ANALYSIS

Keep your machinery in 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 frequency4 Ch memory consumption 3 GB/hour4 Ch total recording - 35 hours
Frequency ranges:	max. 76 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		
FFT resolution:	• min. 100 lines • max. 25600 lines	Display:	• color 800 x 600 pixels, LCD
Unit modes:	Analyzer - 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	Communication:	• USB
		Temperature range:	• -10°C to +50°C
		Power:	battery 5 hours operation, AC 230 V
		Case:	•Aluminum Heavy Duty
		Size & Weight:	• 230 x 140 x 60 mm • 2200 g
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		



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