NOISE CONTROL ENGINEERS
ACOUSTICS HELLAS

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Adash

ΟΙΚΟΝΟΜΙΚΗ ΠΡΟΒΛΕΨΙΜΗ ΣΥΝΤΗΡΗΣΗ ΜΗΧΑΝΗΜΑΤΩΝ

- **Vibration diagnostics**
- **Balancing of machines**
- **Predictive and pro-active maintenance systems**

A4900 - Vibrio III

More than a vibration meter!

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Applications of A4900 - Vibrio III:
- Bearings condition measurement
- Lubrication checking
- Machines fault detection
  - unbalance, looseness, misalignment
- Temperature measurement
- LED stroboscope
- Stethoscope function - „listening to machine"

Front panel of A4900 - Vibrio III includes:
- ACC ICP® input and firmware upload
- IR non-contact temperature sensor
- LED stroboscope
- Stethoscope output - 3,5 mm jack for headphones

90℃
194°F

phones   input

mm/s-[RMS]
3.86
g - [RMS]
0.35
AUTO   1500 RPM

Very simple to use:
- Three buttons operation
- All functions are pre-defined
- Expert functions for faults detection
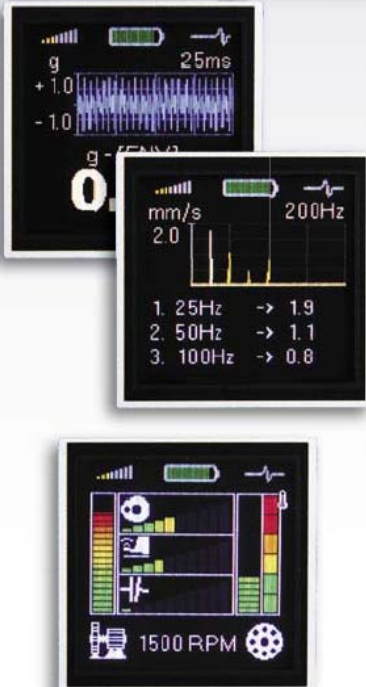- Colour graphic display

g   25ms
+ 1.0
- 1.0
g - [ENV]
0.

mm/s   200Hz
2.0

1. 25Hz   -> 1.9
2. 50Hz   -> 1.1
3. 100Hz -> 0.8

1500 RPM

External measurement sensor:
- Quality, calibrated sensor
- Solid coiled cable
- Strong magnetic base

ADASH 4900
Vibrio

Expert system includes:
- Machine health level
- Bearing health level
- Unbalance level
- Looseness level
- Misalignment level
- ISO 10816-3 rules included

Heavy-Duty Case
- Aluminium case
- 2 AA rechargeable
  or
- 2 AA alkaline

A4400 - VA4

Don't overlook VA4-Recorder!

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- · Synchronous measurement on 4 AC and 4 DC channels
- · ICP® powering for AC channels - on/off
- · Frequency ranges: 76.6 kHz for one channel measurement
  25.6 kHz for four channel measurement
- · 24 bit A/D, 64 bit double floating point DSP
- · Dynamic range 120 dB, no autogains
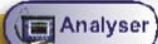- · Triaxial sensor connection available

Headphones connection

USB 2.0 Hi-speed data transfer

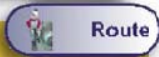- · Heavy-duty case
- · Large colour display 800 x 600

Analyser
- · Realtime - multi-signals analysis
- · Linear phase signal processing
- · FFT spectrum 25600 lines max.
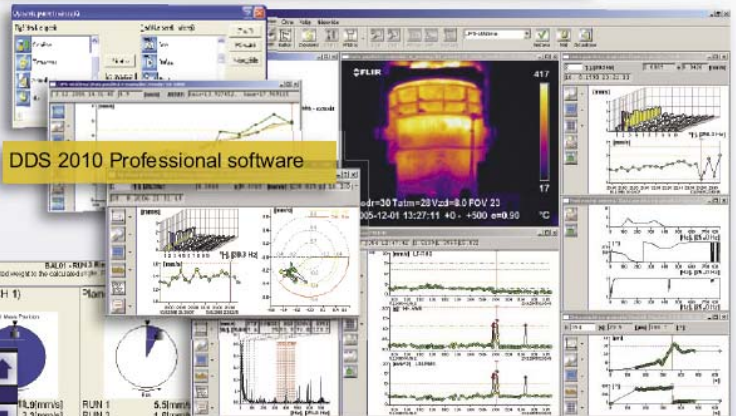- · Frequency response, coherence functions
- · Orbit analysis

Route
- · Multi-route function
- · Large route memory - 4 GB - 8000 measurement points
- · Trend view function - measurement history in the VA4
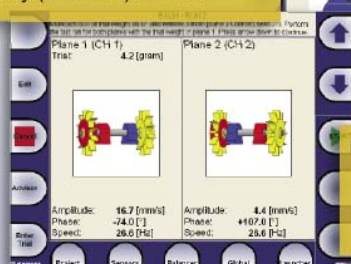- · DDS 2010 Professional software

RunUp
- · Comfortable control of RunUp/CoastDown by:
  - time interval
  - RPM speed change
  - manual
  - free run

DDS 2010 Professional software

Recorder
- · Signal recording with adjustable sampling frequency
- · Max 65 kHz sampling frequency (35 hours record) for 4 CH
- · Max 196 kHz sampling frequency (45 hours) for 1 CH

Balancer
- · One and two planes balancing
- · Fully intuitive graphic user interface
- · Advisor function helps you to decide whether the balancing is required

A3700

Applications of A3700:

The **A3700** monitoring system is designed to measure the output signals from protection systems or directly from sensors. The A3700 includes one or more A3716 units, A3750 software and A3760 software. The DDS 2010 software is used for data analysis.

A3716:
· 16 AC, 16 DC and tacho inputs
· 25.6 kHz frequency range
· Synchronouse measurement
· 2TB internal hard disc
· OPC interface for data transfer

Measurement of:
· Overall values
· Time signals
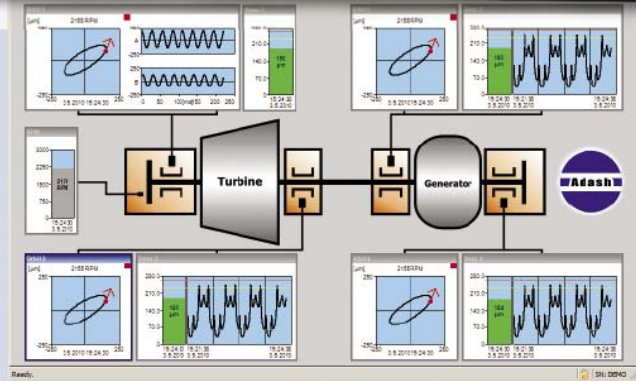· FFT spectra up to 25600 lines
· Order analysis
· Orbits

The **A3750 software** controls the data transfer from all used A3700 units and saves them to the SQL database. The measurement process can be controlled by many ways (time interval between values, As Fast As Possible (less then 1s between measurements), value change, speed change, limits get over or under, ...).

The **A3760 software** is used for creation of screens with actual measured data and the trends - history. This system is designed for using in control

A4801

Applications of A4801:

When this unit is connected to the cable instead the accelerometer, then you have got the signal generator. Two frequencies with precise levels enable to check the analyzers, vibration meters, protection systems, monitoring systems. By using A4801 you can also calibrate your systems yourself and decrease the cost.

The A4801 vibration values respond to 100 mV/g sensor sensitivity. You can simply convert them to other sensitivity.

This unit generates 80Hz & 8kHz.
The table shows the amplitudes to expect in various units.

unit	80Hz		8kHz		Overall
	RMS	PEAK	RMS	PEAK	RMS
mV	51	70.7	50	70.7	71.4
m/s^2*	5.0	7.1	4.9	6.9	7.0
g*	0.51	0.72	0.50	0.71	0.71
mm/s*	10.0	14.1	* - for input sensor		
ips*	0.39	0.56	sensitivity 100mV/g		

Nominal amplitudes: +/- 2% at 25°C (77°F)
Temp. variation less than: 1‰ / 1°C (0.6‰ / 1°F)

ICP power: 18-36V, 4-10mA   DC BIAS: 12V to 14V

A4910 - Lubri

Applications of A4910 - Lubri
· Control of lubrication process
· Checking of correct lubrication
· Checking of bearing condition
· Stethoscope function - „listening to machine"

Very simple to use:
· One button operation - ON/OFF
· No instrument setup
· Colour graphic display

Heavy-Duty Case
· Aluminium case
· Tools for lubricator mounting
· 2 AA rechargeable
  or
· 2 AA alkaline

The **A4910 - Lubri** is designate for lubrication replenishment process. During this process the instrument measures the actual lubrication of a bearing and tells the operator when the amount of lubricant is ideal. So it is ensured that we do not under or over lubricate. The instrument enables you to make the whole lubricating process simpler, and decrease lubricant costs and machine maintenance costs.