



... Your best partner for vibration diagnostics

# Adash



Vibration diagnostics tools and software  
Machinery condition monitoring  
Predictive maintenance systems  
Portable balancing tools



# A4900 Vibrio M - Vibration Meter, Data Collector, Data Analyzer

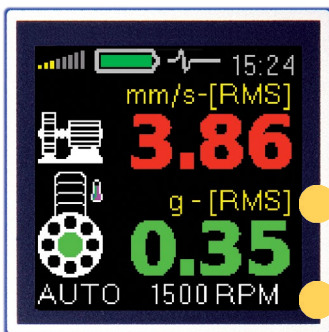


The A4900 - Vibrio M instrument allows you to perform all basic vibro-diagnostics measurements such as bearing condition, identification of mechanical faults and lubrication assessment.

The A4900 - Vibrio M is equipped with 4MB memory for data storage. Data memory allows you to perform off-route and route measurements. New professional software DDS 2014 for Vibrio M can be downloaded from Adash website free of charge.

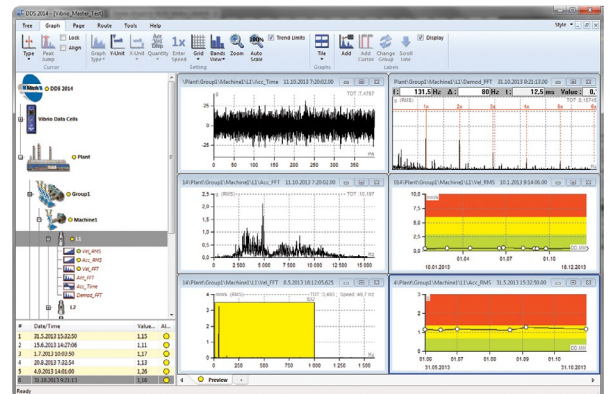
Expert system for automatic machine fault detection is included.

- Quality sensor
- Solid coiled cable
- Strong magnetic base

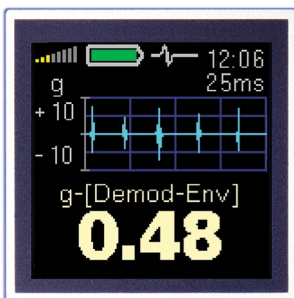


Basic measurements:  
 - ISO value [mm/s, ips]  
 - Bearing value [g]  
 - ISO 10816-3 included

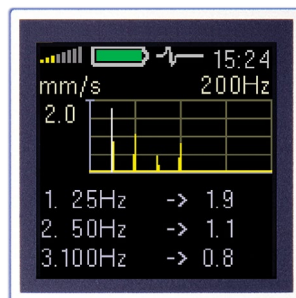
Automatic speed detection



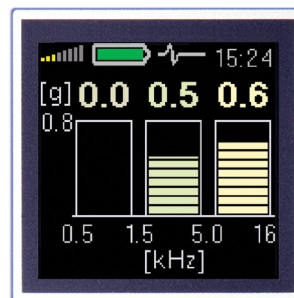
new DDS 2014 software



Time signals



FFT Spectrum



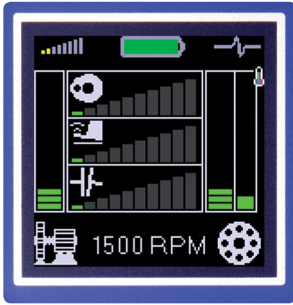
Bearing bands



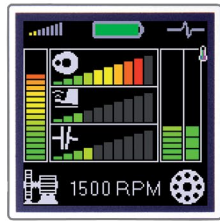
Route measurement

## Evaluate measured data right on site

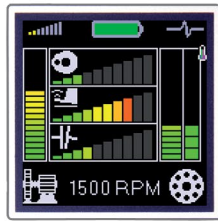
Machine OK



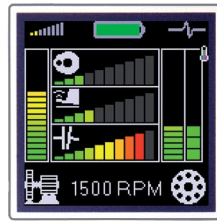
Expert system



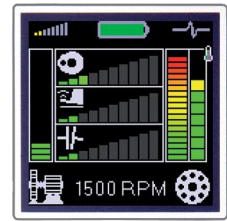
Unbalance



Looseness



Misalignment



Bearing faults

Top panel:

- ACC ICP® - sensor input
- IR non-contact temperature sensor
- LED stroboscope
- Stethoscope output - 3,5 mm jack
- Micro USB for data transfer



Simple to use:

- Three buttons operation
- All functions are predefined
- Expert functions for fault detection
- Colour graphic display

Industrial design:

- Heavy-Duty aluminium case
- 2AA rechargeable or AA alkaline
- 8 hours operation



## A4910 Lubri - Economize the lubrication process

The A4910 Lubri is a maintenance tool used for monitoring and control of the lubrication process. The A4910 Lubri measures the actual bearing lubrication status and informs the operator when the lubrication state is optimal. The A4910 Lubri helps to ensure that bearings will not be under or over lubricated.

Application of the A4910 Lubri extends the bearings life and saves lubricants. Headphones can be connected to listen to the bearing condition. The A4910 Lubri is simple to operate and also enables you to perform basic measurements and diagnosis of bearing condition.



Values in traffic light colours tells you when to add the grease



Lubrication OK



Add grease



Dry bearing

- Heavy-Duty aluminium case
- 2AA rechargeable or AA alkaline
- 8 hours operation



- Easy to use:
- One button operation
  - No instrument set up
  - Colour graphic display

## 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 the vibration signal 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



Designed for rough environment:

- Heavy-Duty aluminium case
- Large colour display

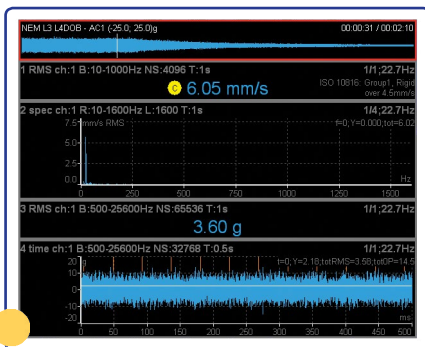
# A4400 VA4 Pro - The fastest 4 channel vibration analyzer

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

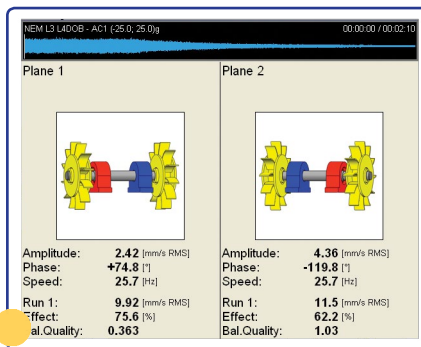
- USB 2.0:
  - - High speed data transfer



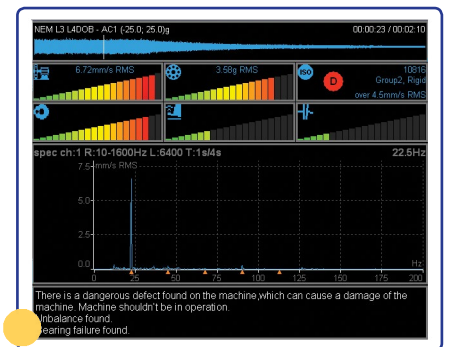
- A/D conversion:
  - - Conversion of signal 24 Bit
  - - Signal processing 64 Bit
  - - Dynamic 120 dB
  - - Auto-Gain less



- ANALYZER:
  - - 4 channels simultaneously

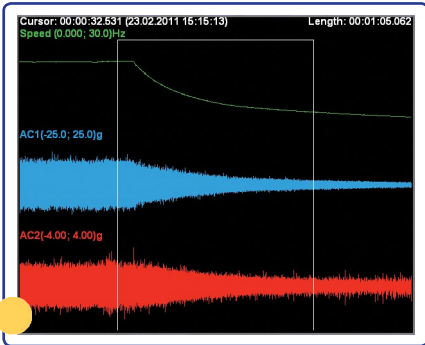


- BALANCER



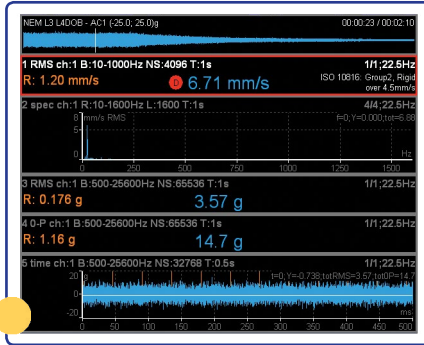
- EXPERT SYSTEM:
  - - Automatic fault detection





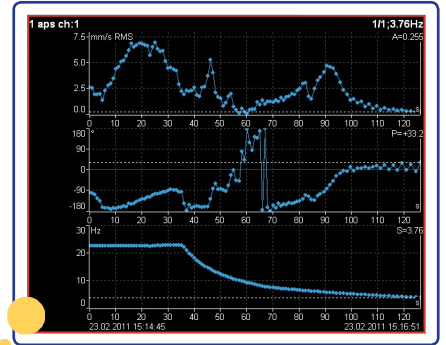
**RECORDER:**

- 4 channels recording
- 35 hours signal recording



**ROUTE:**

- 8000 measuring points
- New DDS 2014 software

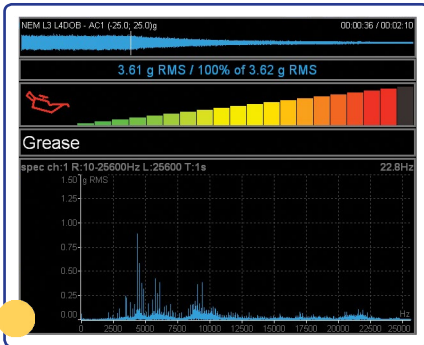


**RUN UP/COST DOWN**



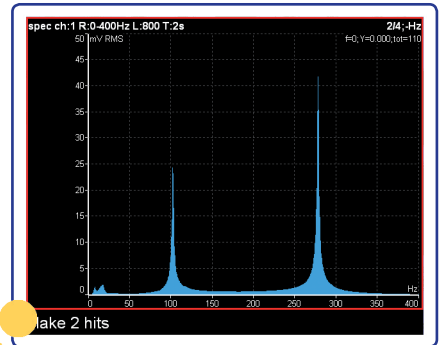
**STETHOSCOPE:**

- Listening of vibration signal

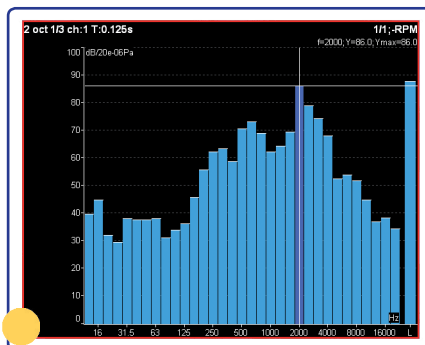


**LUBRI:**

- Monitoring and control of lubrication process



**BUMP TEST**



**OCTAVE ANALYSIS**

Keep your machinery in a good condition



## A4404 SAB - Signal analyzer box

The A4404 - SAB is a pocket size 4 channel vibration analyzer.

Connect the A4404 - SAB to any computer by USB and use the unit for data analysing, collecting and the recording of vibration signals. The instrument is enhanced by modules for dynamic balancing, measurement of run up and cost down and acoustic measurement mode. The instrument is equipped with an expert system developed by Adash, that automatically detects machinery faults.

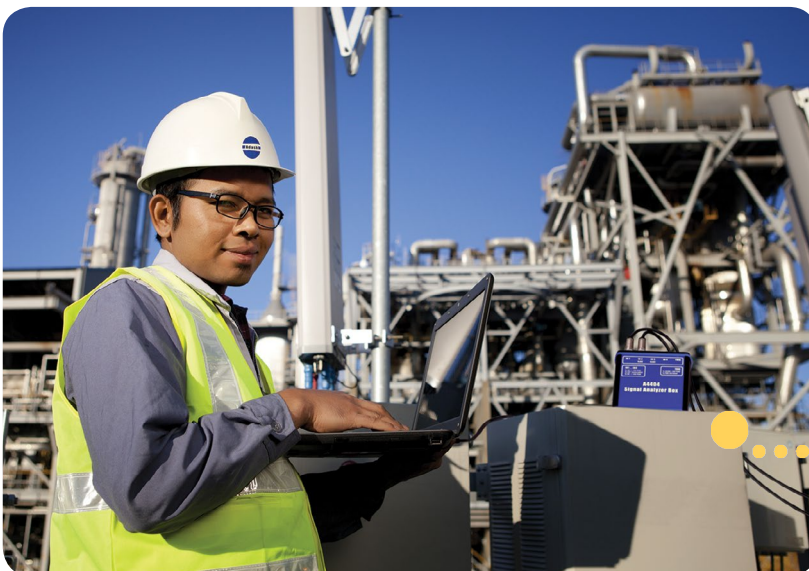
The instrument is powered directly by USB connection so no external power is needed.



VA4 Pro - Virtual Unit software



Pocket size 4 channel Vibration Analyzer  
Input channels:  
4 AC, ICP® (On/Off), 4 DC, 1 TACHO



Connect A4404 SAB to your laptop and get all functions of 4 channel analyzer VA4 Pro



## A3716 On-line monitoring system

The A3716 is powerful online monitoring and diagnostics system for strategic rotating machinery. The A3716 system can operate as an independent monitoring system or it can be used as extension of an existing protection system.

Each A3716 module contains 16 AC, 16 DC and 4 TACHO inputs. All channels are measured simultaneously. Single A3716 modules can be easily composed together and by this we can create widely-channels system.



Real time data viewer A3760



### A3716-3U:

- 16 channels AC
- 16 channels DC
- 4 independent TACHO inputs
- 16 BNC outputs of signals from sensors
- 16 programmable relays outputs
- 16 programmable 4-20 mA outputs

The A3750 software is designed for control of collection and archiving of data and allows to easily configure required measurements.

Software A3760 is designed for real time data viewing in control rooms.

The DDS 2014 software is designed for the following analysing and archiving of all collected data.

Check the condition of your machines continuously



# A3900 - 1 Channel Online System

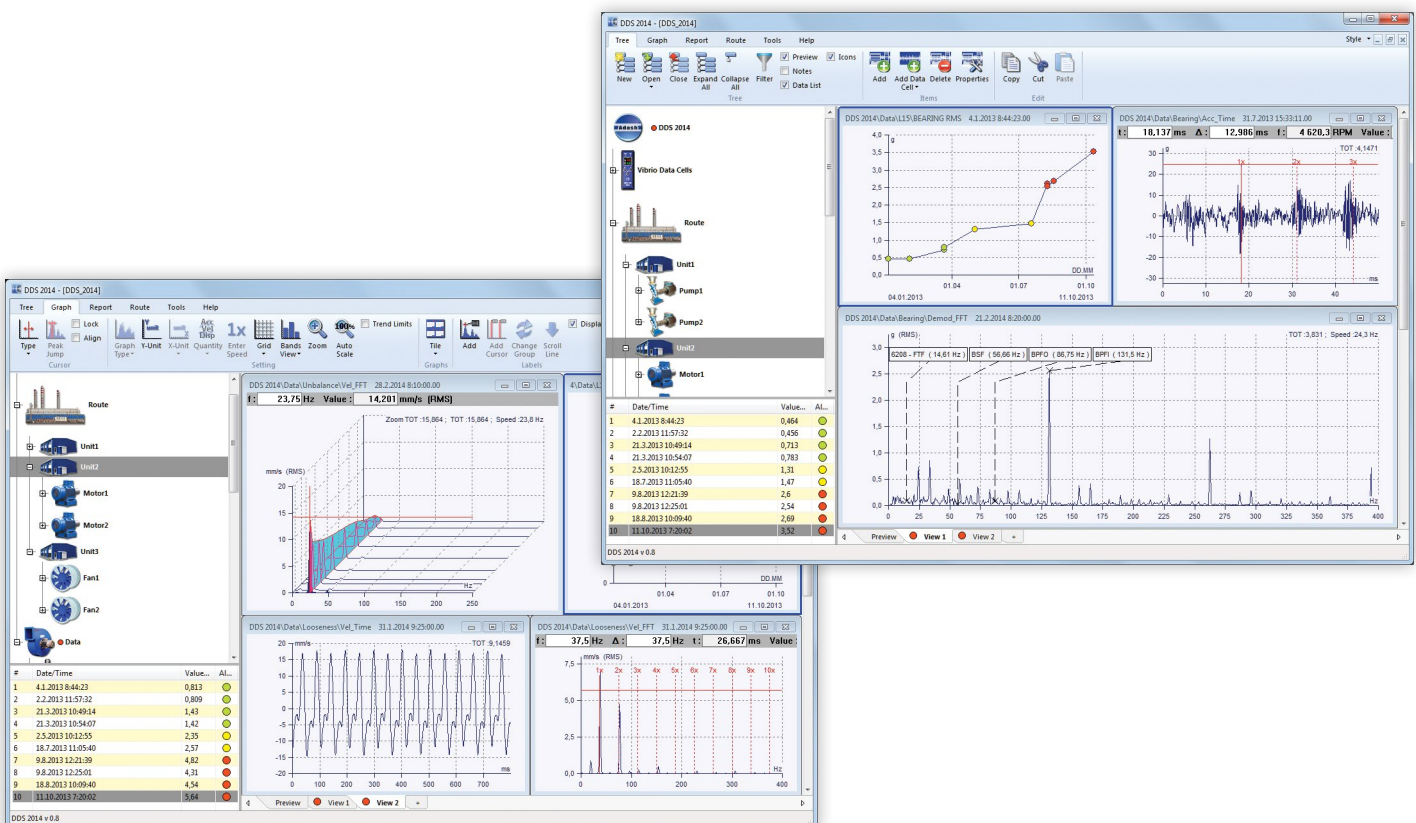
The A3900 is a simple one channel online monitoring system. Measured value is displayed on the front panel and transferred to the control system through the 4-20 mA current loop output. The A3900 unit includes one programmable output "ALARM" relay.

- A3900:
- 1 channel, selectable value:  
[mm/s] / [ips] / [g]
  - Display of values
  - 4-20 mA current loop output
  - Relay output
  - Setup by PC



# new DDS 2014 software

The Digital Diagnostics System 2014 software represents a powerful tool for storage and evaluation of vibration and technical diagnostics data. It allows the user to connect and work with data collected by portable data collectors and monitoring on-line systems. In the full configuration, it includes all the functions necessary for data transfer, analysis and data storage.



## A4801 - Sensor simulator

The A4801 Sensor Simulator device behaves like a standard ICP® acceleration sensor with a sensitivity of 100 mV/g. The unit generates precise amplitude levels on 80 Hz and 8 kHz frequencies. The unit A4801 enables to check measurement precision of analyzers, vibration meters, protection and monitoring systems.



Simulates the acceleration sensor

## ADASH ... Your best partner for vibration diagnostics

The Adash company was founded in 1991. It is a private company which was build up from the beginning without foreign capital. The main field of business of the Adash company is development and production of the instruments, systems and software for machinery vibration diagnostics and monitoring.



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