

VIBRATION METER, ANALYZER, DATA COLLECTOR







# A4900 VIBRIO M

## VIBRATION METER, ANALYZER, **DATA COLLECTOR**

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 of memory for data storage. Data memory allows you to perform off-route and route measurements. The professional software DDS for Vibrio M can be downloaded from the Adash website free of charge.

Our expert system for automatic machine fault



#### **MEASUREMENTS**

- > ISO value [mm/s, ips]
- > Bearing value [g]
- > ISO 10816-3 included
- > Automatic speed detection



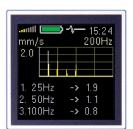
Overall values



Time signal



Frequency bands



FFT Spectrum



Route measurement

#### **EXPERT SYSTEM**

 Enables automatic machine fault detection on site



Machine OK



Unbalance



Looseness



Misalignment



Bearing fault



#### SIMPLE TO USE

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



### **TOP PANEL**

- > ACC ICP® sensor input
- IR non-contact temperature sensor
- > LED stroboscope
- > Stethoscope output
- > Micro USB for data transfer



- › Heavy-Duty aluminium case
- 2AA rechargeable or AA alkaline batteries
- > 8 hours of operation

Wessurements:       Velocity RMS: 10 - 1000 Hz [mm/s, ips]         Velocity PEAK: 10 - 1000 Hz [mm/s, ips]       Acceleration RMS: 500 - 16 000 Hz [g]         Acceleration Peak: 500 - 16 000 Hz [g]       Acceleration Peak: 500 - 16 000 Hz [g]         Velocity time: 1 - 1000 Hz [mm/s, ips], 2048 samples *       Velocity time: 1 - 16 000 Hz [g], 800 lines *         Acceleration Interest - 16 000 Hz [g], 800 lines *       Acceleration Demod-Envelope Peak: 500 - 16 000 Hz [g] *         Acceleration Demod-Envelope Peak: 500 - 16 000 Hz [g], 2048 samples *       Acceleration Demod-Envelope Peak: 500 - 16 000 Hz [g], 800 lines *         Acceleration Demod-Envelope Peak: 500 - 16 000 Hz [g], 800 lines *       Acceleration Demod-Envelope Peak: 500 - 16 000 Hz [g], 800 line age 400 Hz *         Displacement O-Peak: 2 - 100 Hz [µm, mil]       Displacement O-Peak: 2 - 100 Hz [µm, mil]         Displacement Peak-Peak: 2 - 100 Hz [µm, mil]       Displacement Peak-Peak: 2 - 100 Hz [µm, mil]         Displacement Peak-Peak: 2 - 100 Hz [µm, mil]       Displacement Peak-Peak: 2 - 100 Hz [µm, mil]         Displacement Peak-Peak: 2 - 100 Hz [µm, mil]       Displacement Peak-Peak: 2 - 100 Hz [µm, mil]         Displacement Peak-Peak: 2 - 100 Hz [µm, mil]       Displacement Peak-Peak: 2 - 100 Hz [µm, mil]         Displacement Peak-Peak: 2 - 100 Hz [µm, mil]       Displacement Peak-Peak: 2 - 100 Hz [µm, mil]         Displacement Peak-Peak: 2 - 100 Hz [µm, mil]       Displacement Peak-Peak: 2 - 100 Hz [µm, mil]         Displa	Input:	1x ICP® powered accelerometer
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LED torch         Vibration stethoscope         Memory:       4 MB for data         900 measurements of 800 line spectra or 2048 sample time signals may be stored         Data storing:       Off-Route Route with DDS software for Vibrio M (free download)         Interface:       USB 2.0 compatible         Software:       Free version of DDS software (limited database size)         Display:       Colour graphic OLED display 128x128 pixels, diagonal 1.5" (38 mm)         Output:       1 x AC signal 8 Ω / 0,5 W for external headphones (signal listening)         Power:       2 x AA 1.5V batteries (alkaline, NiMH, Lithium - 8 hours of operation)         Temperature:       Operating: -5°C to 55°C         Dimensions:       150 x 60 x 35 mm         Weight:       330 g including batteries (without cable, sensor and magnet)         540 g including batteries, cable, sensor and magnet         Accessories:       vibration sensor, coiled cable to connect vibration sensor, magnetic base for vibration sensor, headphones with 3.5 mm jack, USB cable, measure tip for manual pressure on the sensor, transport case, USB flash disc weapstrand the sensor of the senso	Measurements:	Velocity PEAK: 10 - 1000 Hz [mm/s, ips] Acceleration RMS: 500 - 16 000 Hz [g] Acceleration Peak: 500 - 16 000 Hz [g] Velocity time: 1 - 1000 Hz [mm/s, ips], 2048 samples * Velocity spectrum: 1 - 1000 Hz [mm/s, ips], 800 lines Acceleration time: 1 - 16 000 Hz [g], 2048 samples* Acceleration spectrum: 1 - 16 000 Hz [g], 800 lines* Acceleration Demod-Envelope RMS: 500 - 16 000 Hz [g]* Acceleration Demod-Envelope Peak: 500 - 16 000 Hz [g], 2048 sample: Acceleration Demod-Envelope time: 500 - 16 000 Hz [g], 800 line: range 400 Hz* Displacement RMS: 2 - 100 Hz [µm, mil] Displacement O-Peak: 2 - 100 Hz [µm, mil]
900 measurements of 800 line spectra or 2048 sample time signals may be stored  Off-Route Route with DDS software for Vibrio M (free download)  Interface:  USB 2.0 compatible  Software:  Free version of DDS software (limited database size)  Display:  Colour graphic OLED display 128x128 pixels, diagonal 1.5" (38 mm)  Output:  1 x AC signal 8 Ω / 0,5 W for external headphones (signal listening)  Power:  2 x AA 1.5V batteries (alkaline, NiMH, Lithium - 8 hours of operation)  Temperature:  Operating: -5°C to 55°C  Dimensions:  150 x 60 x 35 mm  Weight:  330 g including batteries (without cable, sensor and magnet) 540 g including batteries, cable, sensor and magnet  vibration sensor, coiled cable to connect vibration sensor, magnetic base for vibration sensor, headphones with 3.5 mm jack, USB cable, measure tip for manual pressure on the sensor, transport case, USB flash disc without cables are presented as the sensor of the senso	Other functions:	LED torch
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<sup>\*</sup>available in DDS software for Vibrio



