A4900 - Vibrio M Ex

Vibration meter and Data collector



II 2 G Ex ib IIC T4 Gb

Adash

... Your best partner for vibration diagnostics

A4900 Vibrio M Ex - Data collector in intrinsically safe version

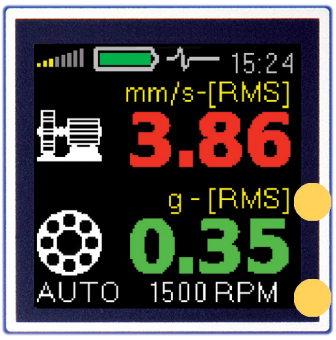


The A4900 - Vibrio M Ex instrument allows you to perform all basic vibro-diagnostics measurements such as bearing condition, identification of mechanical faults and lubrication assessment.

The A4900 - Vibrio M Ex 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 Ex can be downloaded from Adash website free of charge.

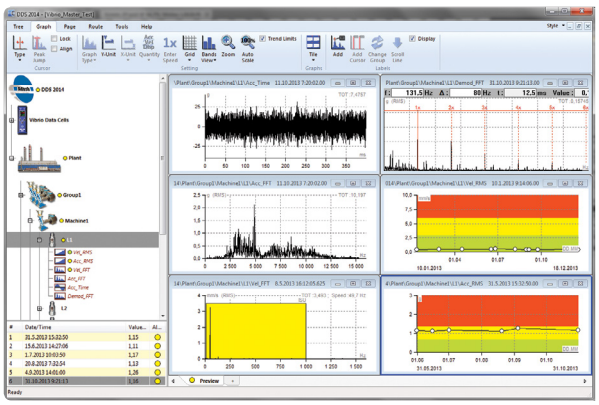
Expert system for automatic machine fault detection is included.

- Quality Ex sensor
- Solid coiled cable
- Strong magnetic base

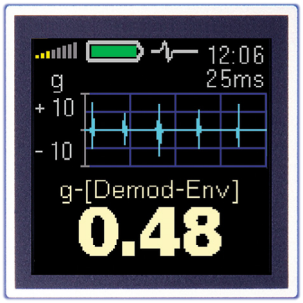


Basic measurements:
- ISO value [mm/s, ips]
- Bearing value [g]
- ISO 10816-3 included

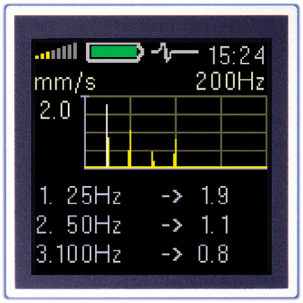
Automatic speed detection



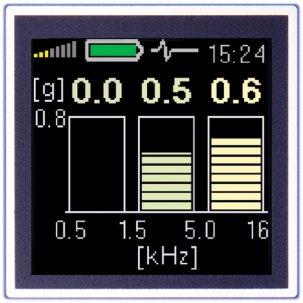
free DDS 2014 software



Time signals



FFT Spectrum



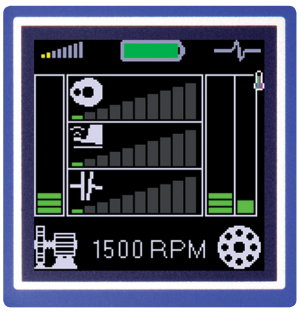
Bearing bands



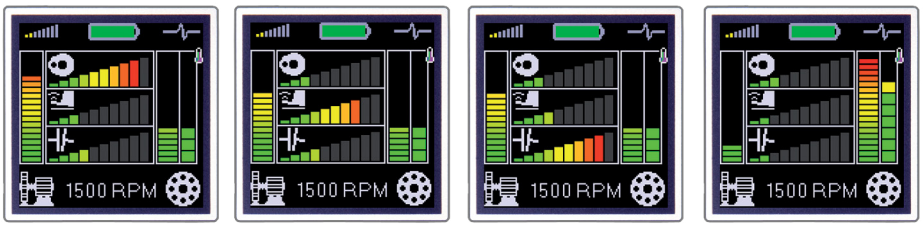
Route measurement

Evaluate measured data right on site

Machine OK

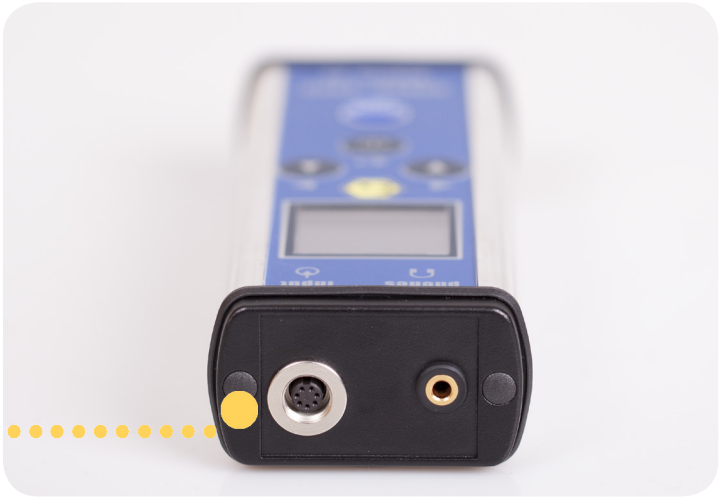


Expert system



Unbalance | Looseness | Misalignment | Bearing faults

Top panel:
- ACC ICP® - sensor input
- Stethoscope output - 3,5 mm jack
- USB for data transfer
  (integrated in sensor input)



Simple to use:
- Three buttons operation
- All functions are predefined
- Expert functions for faults detection
- Colour graphic display



Industrial design:
- Heavy-Duty aluminium case
- Energizer L91 Ultimate Lithium AA batteries
- 7 hours operation



Adash 4900 – Vibrio M Ex Technical Specifications:

Input:	1x ICP® powered Ex accelerometer (AC90x or AC91x)
Input range:	60 g PEAK with standard 100mV/g sensor
Measurements:	Velocity RMS 10 - 1000 Hz [mm/s, ips] Velocity Peak 10 - 1000 Hz [mm/s, ips] Acceleration RMS 500 - 16000 Hz [g] Acceleration Peak 500 - 16000 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 - 16000 Hz [g] 2048 samples * Acceleration spectrum 1 - 16000 Hz [g] 800 lines * Acceleration Demod-Envelope RMS 500 - 16000 Hz [g] Acceleration Demod-Envelope Peak 500 - 16000 Hz [g] * Acceleration Demod-Envelope time 500 - 16000 Hz [g] 2048 samples Acceleration Demod-Envelope spectrum 500 - 16000 Hz [g] 800 lines, range 400 Hz * Displacement RMS 2 - 100 Hz [µm, mil] Displacement 0 - Peak 2 - 100 Hz [µm, mil] Displacement Peak - Peak 2 - 100 Hz [µm, mil]
Further functions:	vibration stethoscope
Memory:	4 MB for data 900 measurements of 800 lines spectra or 2048 samples time, signals may be stored
Data storing (option):	Off-Route Route with DDS 2014 software for Vibrio M Ex
Interface:	USB 2.0 compatible

Software:	DDS 2014 software for Vibrio M Ex (free download)
Display:	colour graphic OLED display 128 x 128 pixels, diagonal 1,5“ (38mm)
Output:	1x AC signal 8 Ω / 0,5 W for external headphones (signal listening)
Power:	2x AA 1.5V batteries (Energizer L91 Ultimate Lithium - 7 hours operation)
Temp:	Operating: -20°C to 50°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:	Ex vibration sensor (AC90x or AC91x), coiled cable to connect vibration sensor, magnetic base for vibration sensor, headphones with 3.5 mm jack, special USB cable, measuring tip for manual pressure on the sensor, transport case, CD with the manual
II 2 G Ex ib IIC T4 Gb:	II Non-mining 2 Zone 1 G Gas atmosphere Ex ib Principe of protection: Intrinsic Safety EN 60079-11 , Zone 1 IIC Gas group - Acetylene, Hydrogen T4 Temperature class – 135°C Gb Equipment Protection Level – Zone 1 (high protection)

* Available in DDS2014 software for Vibrio M Ex



Adash, spol. s r.o.
Hlubinska 1379/32
702 00 Ostrava
Czech Republic

e-mail: info@adash.com
tel.: +420 59 623 2670
+420 59 623 2687
fax.: +420 59 623 2671

www.adash.com