



## A4900 VIBRIO M EX

DATA COLLECTOR IN INTRINSICALLY SAFE VERSION

MASTER THE LANGUAGE OF YOUR MACHINERY



# A4900 VIBRIO M EX

## DATA COLLECTOR IN INTRINSICALLY SAFE VERSION

The Vibrio M is now also available in an Ex version. All basic vibrodiagnostics measurements are available: Overall Values, FFT Spectrum, Time signal, Frequency bands, Route measurement or Expert system. You can listen to the signal with the headphones supplied with every unit.

The Vibrio M Ex communicates with the DDS software, which you can download for free from the Adash website.



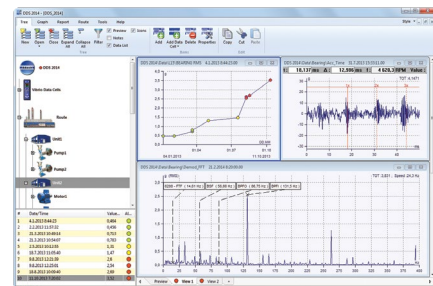
**Ex certification:: II 2 G Ex ib IIC T4 Gb**



<b>II</b>	Non-mining
<b>2</b>	Zone 1
<b>G</b>	Gas atmosphere
<b>Ex ib</b>	Principle of protection: Intrinsic Safety EN 60079-11, Zone 1
<b>IIC</b>	Gas group - Acetylene, Hydrogen
<b>T4</b>	Temperature class 135°C
<b>Gb</b>	Equipment Protection Level – Zone 1 (high protection)



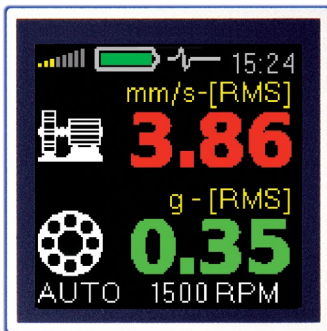
**Free DDS software  
for Vibrio M Ex**



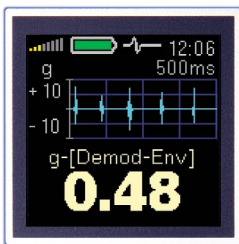


## MEASUREMENTS

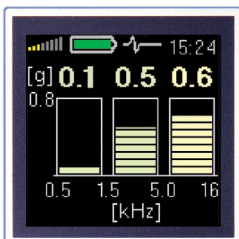
- › ISO value [mm/s, ips]
- › Bearing value [g]
- › ISO 10816-3 included
- › Automatic speed detection



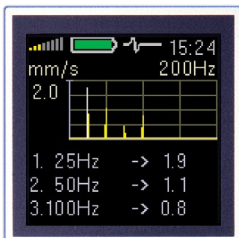
Overall values



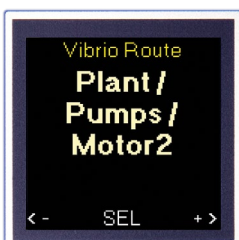
Time signal



Frequency bands



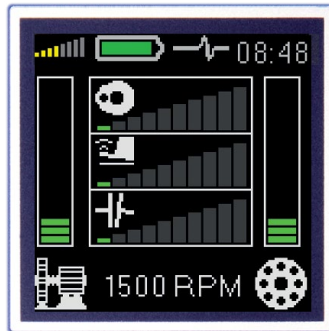
FFT Spectrum



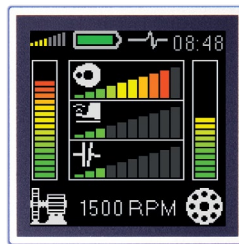
Route measurement

## EXPERT SYSTEM

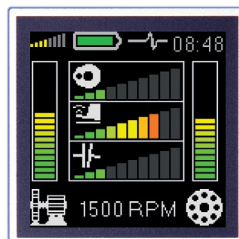
- › Enables automatic machine fault detection on site



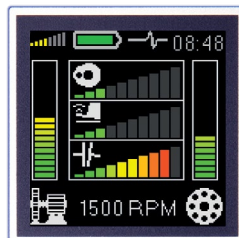
Machine OK



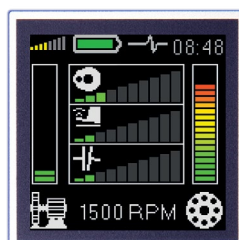
Unbalance



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
- › Stethoscope output
- › USB for data transfer



## INDUSTRIAL DESIGN

- › Heavy-Duty aluminium case
- › Energizer L91 Ultimate Lithium AA batteries
- › 7 hours of operation

## A4900 VIBRIO M EX TECHNICAL SPECIFICATIONS:

<b>Input:</b>	1 x ICP <sup>®</sup> powered Ex accelerometer (AC90x or AC91x)
<b>Input range:</b>	60 g PEAK with standard 100 mV/g sensor
<b>Measurements:</b>	Velocity RMS: 10 - 1 000 Hz [mm/s, ips] Velocity PEAK: 10 - 1 000 Hz [mm/s, ips] Acceleration RMS: 500 - 16 000 Hz [g] Acceleration Peak: 500 - 16 000 Hz [g] Velocity time: 1 - 1 000 Hz [mm/s, ips], 2048 samples * Velocity spectrum: 1 - 1 000 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]* Acceleration Demod-Envelope time: 500 - 16 000 Hz [g], 2048 samples Acceleration Demod-Envelope spectrum: 500 - 16 000 Hz [g], 800 lines, range 400 Hz* Displacement RMS: 2 - 100 Hz [µm, mil] Displacement O-Peak: 2 - 100 Hz [µm, mil] Displacement Peak-Peak: 2 - 100 Hz [µm, mil]
<b>Other functions:</b>	Vibration stethoscope
<b>Memory:</b>	4 MB for data 900 measurements of 800 line spectra or 2048 sample time signals may be stored
<b>Data storing:</b>	Off-Route Route with DDS software for Vibrio M Ex (free download)
<b>Interface:</b>	USB 2.0 compatible
<b>Software:</b>	DDS software for Vibrio M Ex (free download)
<b>Display:</b>	Colour graphic OLED display 128x128 pixels, diagonal 1.5" (38 mm)
<b>Output:</b>	1 x AC signal 8 Ω / 0,5 W for external headphones (signal listening)
<b>Power:</b>	2 x AA 1.5V batteries (Energizer L91 Ultimate Lithium - 7 hours operation)
<b>Temperature:</b>	Operating: -20°C to 50°C
<b>Dimensions:</b>	150 x 60 x 35 mm
<b>Weight:</b>	330 g including batteries (without cable, sensor and magnet) 540 g including batteries, cable, sensor and magnet
<b>Accessories:</b>	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, USB flash disc with the manual
<b>II 2 G Ex ib IIC T4 Gb:</b>	II Non-mining 2 Zone 1 G Gas atmosphere Ex ib Principle 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 DDS software for Vibrio

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