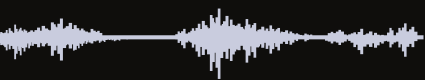




## A4300 VA3 Pro Ex

INTRINSICALLY SAFE

3-CHANNEL VIBRATION ANALYZER  
DATA COLLECTOR, BALANCER AND MUCH MORE ...



MASTER THE LANGUAGE OF YOUR MACHINERY





# A4300 VA3 Pro Ex

## 3-CHANNEL ANALYZER



The A4300 VA3 Pro Ex is the newest addition to our range of portable devices for vibration diagnostics and machine balancing.

There are 2 signal inputs and 1 tachometer/trigger input. Input 2 offers connectivity to a triaxial sensor, therefore all 3 channels can be measured simultaneously. The expert system developed by Adash can automatically detect machine faults such as unbalance, looseness, misalignment and bearing faults.


There is a non-contact IR temperature sensor (for immediate bearing temperature measurement) and a LED stroboscope/torch.

The A4300 VA3 Pro Ex is designed for one-handed operation. With a weight of just 760g and a battery life of more than 6 hours of operation, the unit is suitable for long route measurements.

The A4300 VA3 Pro Ex instrument can be configured according to your requirements by choosing optional modules: analyzer, route, balancer, recorder, run up or ultrasound. Optional modules can be purchased also additionally and downloaded to the instrument without the need of sending it back to the factory.

- > Low weight 760 g
- > Long lasting battery
- > Ideal for route measurement
- > Machine balancing

+ Includes stroboscope and temperature sensor

 II 3G ex ic op is IIC T3 Gc



Meter



FASIT



Stroboscope



Analyzer



Route



Balancer



Recorder



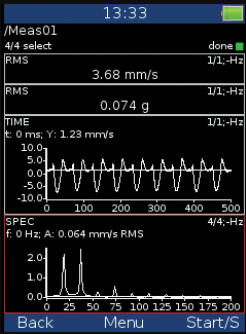
Run Up



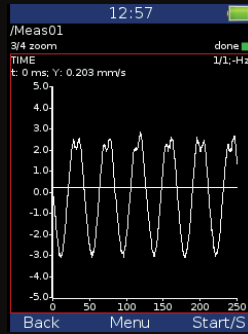
Ultrasound



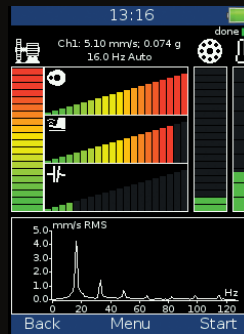
## MEASUREMENTS



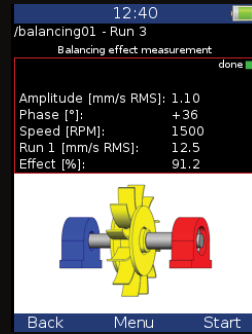
Analyzer



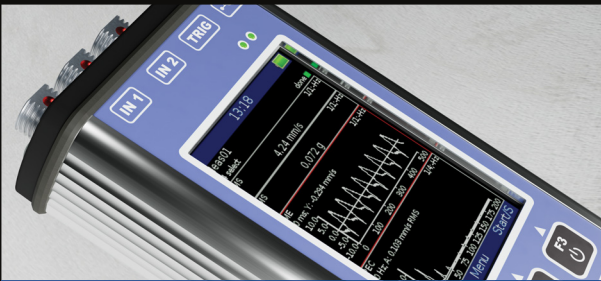
Time signal



Expert system

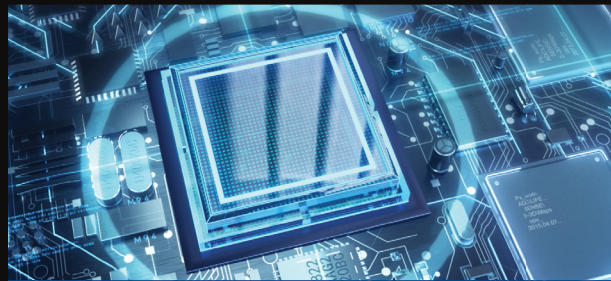


Balancer



### DATA PROCESSING

- > Real time FFT
- > DEMOD - ENVELOPE analysis
- > ACMT - low speed bearing analysis
- > Order analysis
- > User band pass analysis
- > RPM measurement
- > DC measurement
- > Orbit measurement



### A/D CONVERSION

- > 24 Bit A/D conversion
- > 64 Bit signal processing
- > 120 dB dynamic range
- > AutoGain function is not necessary



### IDEAL FOR ROUTE MEASUREMENT

- > Heavy-Duty aluminium case
- > Li-Ion battery pack
- > More than 6 hours of operation
- > Colour display 240 x 320 px
- > FFT resolution: 25600 lines
- > Route memory: 8GB

### TOP PANEL

- > ACC ICP® - sensor input
- > Input IN2 is ready for triaxial sensor (3 simultaneous channels)
- > Input for tachometer/trigger
- > IR non-contact temperature sensor
- > LED stroboscope/torch
- > Mini USB for data transfer

## TECHNICAL SPECIFICATIONS:



### II 3G ex ic op is IIC T3 Gc

<b>Input channels:</b>	3 AC, ICP® power supply on/off 3 DC for process values 1 TACHO for external trigger
<b>Input range:</b>	AC +/- 12 V peak-peak DC +/- 24V
<b>AD conversion:</b>	24 bit, 64 bit internal signal processing AutoGain function is not necessary!
<b>Dynamic range S/N:</b>	120 dB
<b>Frequency ranges (-3 dB):</b>	Maximum range: 0.5 Hz - 25 kHz (64 kHz sampling) Minimum range: 0.5 Hz - 25 Hz (64 Hz sampling)
<b>Sampling mode:</b>	Fully simultaneous for 3 channels
<b>FFT resolution:</b>	Min. 25 lines Max. 25 600 lines
<b>Unit modes:</b>	Analyzer - analytic measurement Data collector - route measurement Balancer Recorder Run Up Ultrasound LED stroboscope, LED torch FASIT - Expert system for fault detection Vibration meter
<b>Data processing:</b>	Real time FFT DEMODO - ENVELOPE analysis ACMT - low speed bearing analysis Order analysis User band pass analysis RPM measurement DC measurement Orbit measurement
<b>IR temperature measurement:</b>	Range -70°C to +380°C (-94°F to +716°F)
<b>Trigger:</b>	Manual, External, Amplitude, Tacho - Ex ia op is IIC T4 Ga
<b>Display:</b>	Colour 240 x 320 pixels, TFT
<b>Communication:</b>	USB
<b>Operating temperature range:</b>	-10°C to +50°C (with tacho probe +40°C)
<b>Power:</b>	Battery 6 hours of operation, AC 100 V - 230 V
<b>Case:</b>	Aluminium heavy duty
<b>Weight:</b>	760 g
<b>Dimensions:</b>	230 x 82 x 32 mm

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