



## A4300 VA3 PRO

3-CHANNEL VIBRATION ANALYZER

MASTER THE LANGUAGE OF YOUR MACHINERY



 **CALRIGHT  
INSTRUMENTS**

*The Right Source For Your Test & Measurement Needs*

8715 Mesa Point Terrace San Diego, CA 92154  
Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012  
Email: [sales@calright.com](mailto:sales@calright.com) <http://www.calright.com>



# A4300 VA3 Pro

## 3-CHANNEL ANALYZER



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

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 is designed for one-handed operation. With a weight of just 780g and a battery life of more than 10 hours of operation, the unit is suitable for long route measurements.

The A4300 VA3 Pro 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 780 g
- > Long lasting battery
- > Ideal for route measurement
- > Route compatibility with VA4 Pro



Includes stroboscope and torch



Meter



FASIT



Stroboscope



Analyzer



Route



Balancer



Recorder

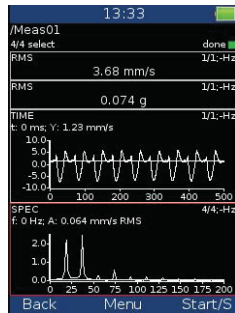


Run Up

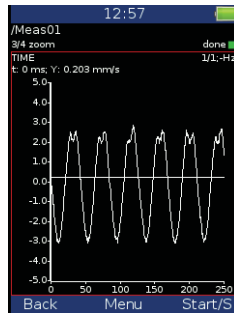


Ultrasound

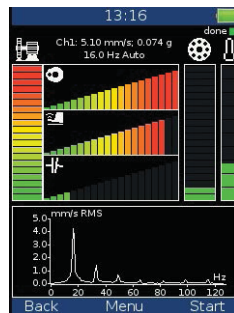
## MEASUREMENTS



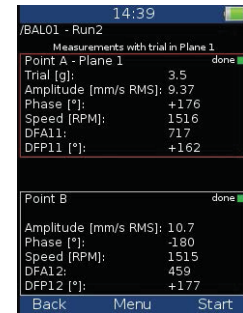
Analyzer



Time signal



Expert system

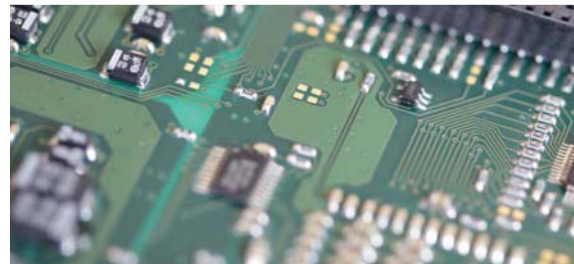


Balancer



### 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
- › No Auto-Gain



### IDEAL FOR ROUTE MEASUREMENT

- › Heavy-Duty aluminium case
- › Removable Li-Ion battery pack
- › More than 10 hours of operation
- › Colour display 240 x 320 px
- › FFT resolution: 25600 lines
- › Route memory: 8GB



### TOP PANEL

- › ACC ICP® - sensor input
- › 2 signal inputs AC/DC (IN1,IN2)
- › Input IN2 is ready for triaxial sensor (3 simultaneous channels)
- › Input for tachometer/trigger
- › IR non-contact temperature sensor
- › LED stroboscope/torch



## TECHNICAL SPECIFICATIONS:

<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 No AutoGain function!
<b>Dynamic range S/N:</b>	120 dB
<b>Frequency ranges:</b>	Maximum range: 1 Hz - 25 kHz (64 kHz sampling) Minimum range: 1 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
<b>Display:</b>	Colour 240 x 320 pixels, TFT
<b>Communication:</b>	USB
<b>Operating temperature range:</b>	-10°C to +50°C
<b>Power:</b>	Battery 10 hours of operation, AC 230 V
<b>Case:</b>	Aluminium heavy duty
<b>Weight:</b>	780 g
<b>Dimensions:</b>	230 x 82 x 32 mm

MASTER THE LANGUAGE OF YOUR MACHINERY



**CALRIGHT  
INSTRUMENTS**

*The Right Source For Your Test & Measurement Needs*

8715 Mesa Point Terrace San Diego, CA 92154  
Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012  
Email: [sales@calright.com](mailto:sales@calright.com) <http://www.calright.com>

© Adash 2016