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vbBalancer™

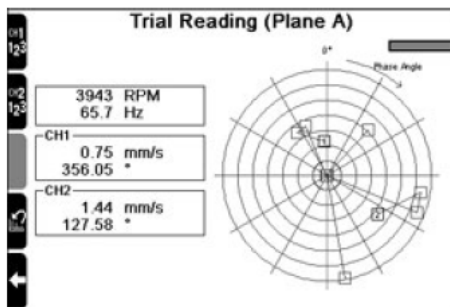


TWO CHANNEL IMBALANCE CORRECTION PACKAGE

Lightweight and extremely portable, the vbBalancer™ 2 channel instrument is easily carried on site to any problematic machine. The 10 hour battery life and 1 GB of internal memory ensure progress is uninterrupted, practically eliminating the need to pause in order to connect to a PC or power supply. The vbBalancer instrument also carries the legendary "Commtest Care" package which includes a 5 year warranty on the instrument and free lifetime support.

Balance Setup			
Balance Planes	1 (360°)	WR	Weight Orientation
# Sensors	1		
# Averages	1	Standard	Tach Type
Machine Information	(optional)	g/kg m	Weight Lin Dist
Fmax	Automatic	mm rms	Store Units

Imbalance causes high levels of mechanical stress and vibration that are transferred directly to the bearings resulting in a proportional reduction in normal bearing life. With a few basic parameters the vbBalancer instrument calculates acceptable imbalance levels to ensure machinery operates within international ISO 1940 guidelines.



Setup

vbBalancer instrument setup is minimal, quick and easy. Only a few calibration runs are required, with or without removing your trial weight.

Memory

The vbBalancer instrument stores your previous balance run data. No need to waste valuable time performing calibration runs on repetitive or routine balance jobs.

Balance

Imbalance is computed quickly and the large backlit LCD display and user-friendly graphical interface indicate the angular position for weight correction.

Supplied with vbXManager™ software

Specifications	Vb5
Channels	Two
Sensor	Accelerometer
AC coupled range	16V peak-peak
DC coupled range	N/A
Connectors	BNC
Analog to Digital conversion	24 bit ADC
Sensor excitation current	0 mA or 2.2 mA (configurable), 24V maximum
Sensor detection	Warns of short circuit or not connected
Tachometer	
Sensor	Laser sensor with reflective tape included in kit
Laser Sensor range	10cm to 2m nominal
Other sensor types supported	Contact, TTL pulse, Keyphasor®
Power supply to sensor	6V to 8V, 50mA
TTL pulse rating	3.5V (4ma) min., 28V (6ma) max, off state 0.8V
Keyphasor® threshold	N/A
Sensor excitation current	0 mA or 2.2 mA (configurable), 24V maximum
Speed range	30 RPM to 300,000 RPM, (0.5Hz to 5kHz)
Parameter Indication	
Maximum levels	> 1000g (10,000 m/s ²) > 1000 in/sec (25,000 mm/s) > 100 in (2500 mm)
Dynamic Signal range	➤ 95 dB
Harmonic distortion	Less than -70 dB typically
Units	G's or mm/s ² , in/sec or mm/sec ² , mils or mm or μm adB, vdB
Magnitude and Cursors	Overall RMS value, dual cursors, harmonics
Accuracy	±1% (0.1 dB)
Frequency Response	±3.0 dB from 1 Hz to 5 kHz
Sensor detection	Warns of short circuit or not connected
Spectrum Display	
F Max possible ranges	25, 50, 100, 125, 150, 200, 300, 400, 500, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000, 4000, 5000 Hz
F Min possible range	0 to F Max
Resolution	800 lines
Frequency Scale	Hz, CPM
Amplitude Scale	Acceleration, Velocity, Displacement
Window Shapes	Hanning
Overlap	50%
Number of averages	1, 2, 4, 18, 16, 32, 64, 128
Averaging types	Linear

Waveform Display	
Number of samples	2048
Time scale	160 ms to 32 seconds
Balancing	
Planes	2 planes, 2 sensors
Speed range	30 to 60,000 RPM
Measurement Type	Acceleration, Velocity, Displacement
Weight Modes	0 to 360°, fixed position, circumference arc
Remove Trial Weights	Yes, No
Manual data entry	√
Storage	Against machines in data structure
Channel Selection	Single or Dual Channel
Logging Features	
Data Storage	1 GB
Data storage structure	Folders / machines
Max Folder Size	10,000 measurement locations
Display and Communications	
Resolution	480 x 320 pixels (HVGA) grayscale LCD
Viewing area	4.6 x 3.1" (117 x 79 mm)
Backlight	White LED, 4V, 100 Cd/m2
Communications with PC	USB and Ethernet
Battery and Charger	
Battery Type	Custom Lithium Ion pack, 7.4 V, 4500 mAh
Operating time	10 hours
Charger type	Internal charging, automatic control
Charge rate	3A nominal
Mechanical	
Size	9.9 W x 5.8 L x 2.4" H, (252 x 148 x 60 mm)
Weight	2.7 lb (1.2 kg)
Backlight	White LED, 4V, 100 Cd/m2
Communications with PC	USB and Ethernet
Environmental	
Operating temperature	14 to 122°F (-10 to 50°C)
Storage Temperature & Humidity	4 to 140°F (-20 to 60°C)
EMC	EN61326
Ruggedness	IP65, 4' (1.2m) drop onto concrete

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