



C-Cubed

Pocket VibrA Lite

Number Nine • Ardglan Industrial Estate • Whitchurch • Hampshire • RG28 7BB • United Kingdom

Vibration analysis made easy!



- Fully waterproof & rugged IP67 construction
- No set-up single button use
- Auto detects out of balance, misalignment, looseness
- Full frequency spectrum and time waveform
- Analyzes bearing wear
- Save readings as Excel files for transfer to PC
- Low cost system - fully upgradable to PocketVibrA Pro & PocketBalancer

Works straight out of the box!

Easy to use low cost condition based maintenance tools -
Now there's simply no excuse!

Pocket VibrA Lite

Specifications

Features :

- No set-up required, single button operation
- Easy to read display
 - ISO velocity (mm/s)
 - Total acceleration (g)
 - Crest factor
 - Bearing noise (BDU)
- Auto vibration analysis capability - enables easy diagnosis of machine faults
 - Instability
 - Out of balance
 - Misalignment
 - Looseness
- Displays full frequency spectrum and time waveform for acceleration (g) and velocity (mm/s)
- Saves readings for later recall
- Saves data as CSV files (Excel compatible) for easy transfer to PC
- Can be upgraded to full asset management system with trending of data, alarming, automatic report generation and graphical display of multiple frequency spectra etc

Size	220 mm x 95mm x45mm
Weight	500g (not including accelerometer)
Environmental	
Water:	MIL-STD-810F, Method 512.4 IP67 sealed against accidental immersion (1m for 30 min)
Drop:	MIL-STD-810F, Method 516.5, Procedure IV 26 drops from 1.22 m 6 additional drops at -20° 6 additional drops at 60°
Operating:	-30° to 65°
Storage:	-40° to 70°
Humidity:	MIL-STD-810F, Method 507.4
Sand & Dust:	IP67, MIL-STD-810F, Method 510.4, Procedures I & II
Power supply	Rechargeable battery (charger included)
Battery life	Typically 20 hours operating time depending on backlight usage.
Frequency range	10 Hz to 1 kHz (or 15kHz)
Frequency resolution	1.3 Hz (or 18.75 Hz) 800 lines FFT
Displayed Amplitude Units	Acceleration in g Velocity in mm/s (or inches/s) Bearing noise in BDU (bearing damage units)
Displayed Frequency Units	Hertz (Hz), RPM or CPM
Input range	+/- 50g with standard 25mV/g C-Cubed accelerometer
Dynamic range	120 dB +/- 50g to +/- 0.0004g with standard accelerometer
Auto set up of VA diagnostic bands (RPM = run speed)	Instability 10Hz - 0.75 xRPM Unbalance 0.75 xRPM - 1.5 xRPM Alignment 1.5 x RPM - 2.5 xRPM Looseness 2.5 x RPM - 3.5 xRPM
Accelerometer Connection	Standard 10 pin IP67 connected smart accelerometer with built-in ID and sensitivity calibration (nominally 25mV/g)
Keypad or Touch screen operation	Stylus free collection of vibration data using single keypress or touching screen
Options	<ul style="list-style-type: none">• Carrying case with neck strap• Stylus lanyard• Docking station