

Specifications	Vb5
Channels	One
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	±0.1 dB from 10 Hz to 15kHz ±3.0 dB from 1 Hz to 40 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, 6000, 8000, 15000, 20000, 30000, 40000 Hz
F Min possible range	0 to F Max
Resolution	400, 800, 1600, 3200, 6400 lines
Frequency Scale	Hz, CPM, Orders
Amplitude Scale	Acceleration, Velocity, Displacement
Window Shapes	Hanning, Rectangular
Overlap	(0, 12.5, 25, 37.5, 50, 62.5, 75, 87.5)%
Number of averages	1, 2, 4, 18, 16, 32, 64, 128
Averaging types	Linear, exponential, peel hold, synchronous
Demodulation bandwidths	21 bandwidth options

Waveform Display	
Number of samples	1024, 2048, 4096, 8192, 16384
Time scale	10 ms to 640 seconds
Logging Features	
Data Storage	1 GB
Data storage structure	Folders / machines / points / locations / routes
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

Visit our e-store for all your condition monitoring needs:
www.reliabilitydirectstore.com