

SPECIFICATION SUMMARY & BILL OF MATERIALS

Model vb5: Single Channel FFT Analyser / Condition Monitoring Software package

With Interactive Training CD on Vibration Analysis & Decision Support Software for Detailed Diagnosis



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Mechanalysis (India) Ltd., an ISO9001:2008 company, continuously improves its products. It therefore retains the right to change the above specification without notice

MIL vb5-Aug09

condition management solutions

Model vb5 / Ascent1 Software

The Economical Solution for the Proactive Maintenance Professional

The vb5™ data collector is a single channel, route-enabled product that provides everything needed for cost effective data collection and analysis. Using this instrument maintenance professionals are able to easily take recordings with up to 6400 lines of resolution and greater than 95dB of dynamic range, and all at a low price that represents exceptional value for money. The vb5 instrument includes the powerful Ascent® software in the purchase price.

Ascent Level 1 enables you to program the instrument with thousands of separate machine definitions covering a number of route choices. A library of over 300 customizable parameter sets is also available enabling a vast array of measurement options.

Ascent Level 1 Software:

- Route enabled – build routes in Ascent Software and send to the instrument
- CBDdb – Commtest Bearing Database with over 30,000 bearings

Enhanced Instrument functionality

- 1 Channel recordings
- 6400 line FFT resolution
- 40KHz Fmax
- 1 GB memory – virtually unlimited spectra storage
- ≥ 95dB dynamic range
- Spectrum and Waveform recordings (simultaneous)
- Large, high resolution (HVGA) backlit LCD
- 5 year warranty on the instrument hardware

Product Code: KTV50321



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Generic specification for Vibration Analyser Instrument with Software

Nos	Feature	Comments
1	Indication	Digital Analyser
2	Display	LCD 117 x 79 mm Resolution 480 x 320 pixels
3	Packaging	IP65 / 1.2 m drop onto concrete.
4	Dimensions	252x1148x60 mm
5	Weight	1.2 kg
6	Frequency	±0.1 dB from 10 Hz to 15kHz; ±3 dB from 1 Hz to 40kHz
7	Resolution	400, 800, 1600, 3200, 6400 lines
8	Dynamic range	>95dB
9	A/D Converter	24-bit
10	No of channels	1 & additional 1 for Phase measurement
11	Data Storage	1 GB
12	Sensors Compatibility	Accelerometer (ICP type) & Tach (both Strobe & laser). Connecting ports for sensors on data collectors should be BNC type.
13	Analysis	FFT, Waveform, Route Enabled Keypad Entry
14	Amplitude Scale	Displacement, Velocity, Acceleration
15	Temperature range	-10 to 50°C (operating), -20 to 60°C (storage)
16	Power Supply	Custom Lithium ion pack, 7.4V, 4500 mAh 110 & 230V, 50 Hz
17	Accessories	1. One sensor used for displacement, velocity and acceleration measurements 2. Signal sensor cable 3. Magnetic Mount 4. Tachometer – laser type
18	Software	Windows based 32 bit, should not take up more than 100mB computer disc space. Should be Vista Compatible.
19	Software	Vibration analysis software should have downloading & archiving facility for FFT, TWF, Exception reporting, data trending, alarm bands, Order display, Fault Frequency analysis, harmonic & sideband cursors should be available with the software. Efficient easy transferring facility of reports & charts to Microsoft Office Packages like Word, Excel etc. The Software should have advanced waveform analysis Tools like converting TWF to FFT & vice - versa. Library of more than 30,000 bearing database
20	Warranty	Vendor should provide 5 years warranty on instrument & six months for accessories. 12 Months upgrade path guarantee
21	Support	Life time Help Desk Support via E-mail 5 years Software & firmware upgrades via website
22	Calibration	Vendor to have National Traceable sensor calibration facility and local Services
23	Training	Training to be given at time of system commissioning. Optionally offer interactive training CD on vibration analysis.



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Standard Accessories of Hardware and Software

SN	Category	Description	Part Number	Units	Comments	
1	System Package	Single Channel Volume Route Data Collector Package with Standard Accessories	KTV50321	1		
2	Instrument	vb5 instrument - Single Channel, advanced analysis features	KALC0325	1	Five Year Warranty on Instrument, 6 months on battery, see conditions for accessories below	
3		Universal AC Power Adapter	ADA70227	1	12 Months from purchase date	
4		C8 Mains Cable – India	PLSA0241	1	12 Months from purchase date	
5		DC Automobile Adapter	DCCA0041	1	12 Months from purchase date	
6		Sensor Accelerometer, model MIL501, Premium, 2-10KHz, 100 mV/g, Top Exit, Mil 2 Pin Connector, , 1/4"-28UNF Female Mounting Thread with National Traceable Cal. Cert.	M5011005001000	1	60 Months from purchase date but recalibration is recommended and available at MIL	
7		Cable Coiled for sensor	CBCC0027	1	12 Months from purchase date	
8		Magnet base – accelerometer – male	MAGM0064	1	12 Months from purchase date	
9		Laser tach sensor with block	LASA0315	1	12 Months from purchase date	
10		Magnetic Base with stand/extension arm for Laser tach/block	MAGA0063	1	12 Months from purchase date	
11		Laser tach cable – 5m length with Lemo	CBL50216	1	12 Months from purchase date	
12		Reflective Tape	RTAP0094	1	12 Months from purchase date	
13		Instrument Manual for vbx	MBX0250	1	12 Months from purchase date	
14		USB Data Transfer Cable	CABU0213	1	12 Months from purchase date	
15		Neck Strap with sensor keeper	NSSK0275	1	12 Months from purchase date	
16		Carry bag	CBVB0032	1	12 Months from purchase date	
17		Quick Start Guide	QSG0248	1	12 Months from purchase date	
18		Software	Ascent Level 1 - Single License	SAL10131	1	Five Year Software Support
19			Ascent Software Security Dongle - USB HL PRO	SDGL1040	1	12 Months from purchase date
20		Commissioning (in days)	CMG4	4	Three days on-site, one day travelling, System commissioning, load route and data collection. If training in vibration technology is required then a further two days will be charged. Expenses at cost	

Mechanalysis (India) Ltd is a leading provider of condition management solutions with over 30 years experience in machinery vibration measurement. The company designs and manufactures proven instrumentation and sensors suitable for rugged industrial environments. A comprehensive range of products and services are available from the offices below:

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