

The **Detector IIe** is THE **cost effective** instrument for vibration monitoring and analysis.

The **Detector IIe**, with **Trendline**, provides a unique combination of analysis power and user accessibility. It is remarkably easy to use, while providing access to a complete range of advanced diagnostic features when required. **Trendline** signal processing algorithms, including FFT spectrum, envelope spectrum, and alarms, are applied to stored data, collected by the **Detector IIe**.

The **Detector IIe**:

- is portable and user friendly
- easy to operate using one hand
- keyboard protected from dust and water splash
- monitoring functions:
 - general vibration condition
 - rolling bearing condition
 - headset jack for acoustic noise evaluation

Trendline standard features include:

- operates under Windows 95, 98, NT
- programming of the Detector II via RS232
- integrated database for saving the measured data
- hierarchic factory and measuring point manager with machine graphics
- trend analysis and trend extrapolation
- alarm report generation

Complete package includes:

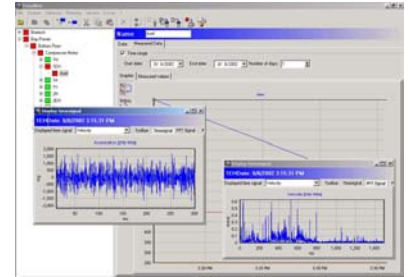
- **Detector IIe** c/w software and manual
- Battery charger
- Nylon carrying case
- Suitcase
- 100mV/g accelerometer and cable
- optional IR non-contact temperature sensor
- RS-232C data cable

specifications and prices are subject to change

ICP® is a registered trademark of PCB PIEZOTRONICS, INC.

SmartSystems International Inc.
A Division of Bretech Engineering Ltd.

Detector IIe Portable Data Collector



TECHNICAL SPECIFICATIONS

I/O

Inputs: ICP® Accelerometer, IR Temperature Sensor (Pyrometer)
Outputs: Backlit LCD, RS-232 PC Interface, Headset Jack

Measuring Range

Vibration/ISO 10816: 2 Hz – 1 kHz (acceleration [mg])
Rolling Bearing Condition: 2 Hz – 20 kHz (velocity [mm/s])
Demodulation: 0 Hz – 100 Hz to 1 kHz (adj. Low-pass)
Temperature: -15°C to +250°C

Physical

Weight: 450 g (<1 lb)
Dimensions: 230 mm X 70 mm X 45 mm (L x W x H)
Operating Temperature: 0 to +50°C
Storage Temperature: -20°C to +70°C
Data Storage: Max. 6000 measuring points / 0 time signals
Max. 116 time signals
Battery: Re-chargeable NiMH battery / 8 hrs. cont. use
Battery Operating Time: 8 hours continuous use

TECHNICAL SUPPORT

Program Setup

Certified Vibration Specialists will configure the vibration monitoring database, including machines, measurement points, analysis parameters, and alarm conditions.

Onsite Training

Customized onsite training will ensure that users clearly understand the fundamentals of vibration monitoring and analysis, as well as features and operation of the instrument and software. To ensure overall success of the monitoring program, technology awareness training may be provided to planners, managers, and engineers.

Remote Support

Certified Vibration Specialists will connect to the database server, using a secure VPN connection, for review of user acquired measurements, database configuration / maintenance, and troubleshooting. Remote analysis and reporting may be provided on periodic and/or as required basis.

Dispatching machine condition alarms and monitoring data electronically to our 24/7 Support Center ensures cost-effective and reliable access to vibration experts, whenever required.

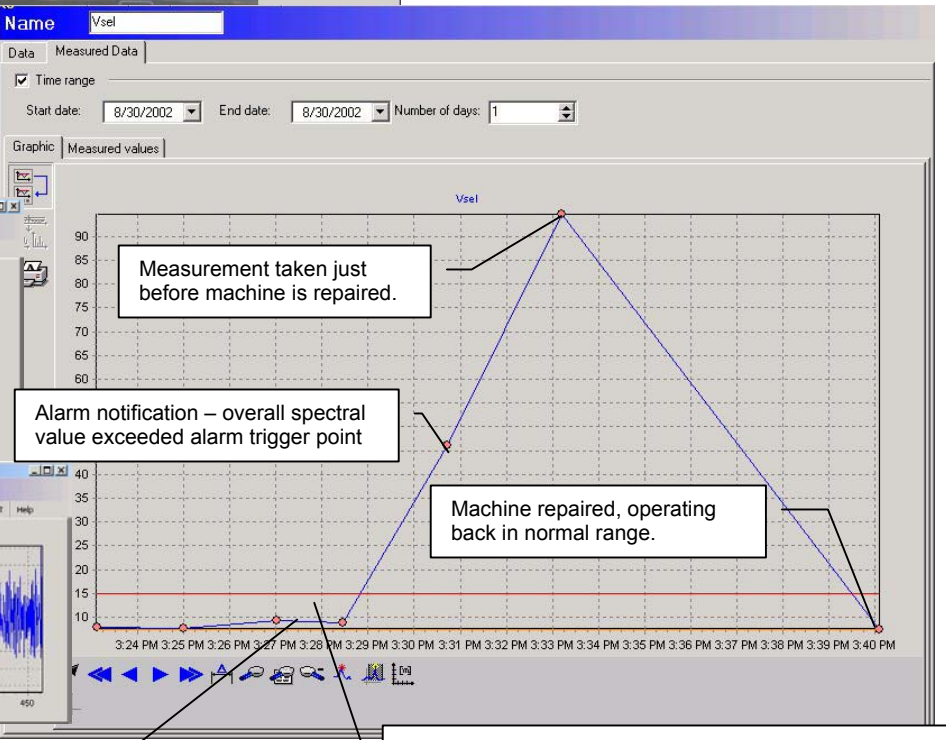
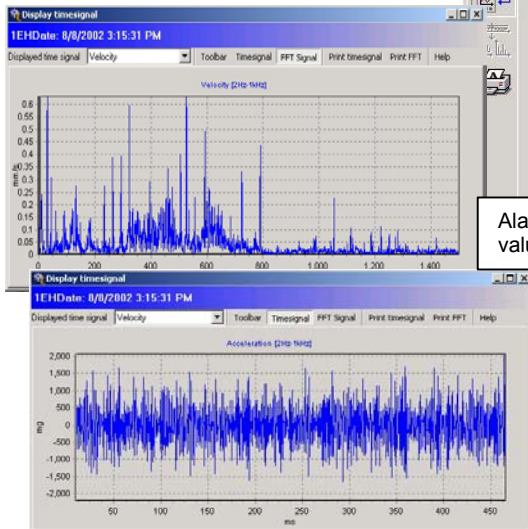


70 Crown Street • P O Box 2331 • Saint John, NB • Canada • E2L 3V6
tel: (506) 633 1774
fax: (506) 633 7460

SmartSystems@bretech.com

Sample Waveforms and Spectrum Using the Detector II and Trendline Software

Trendline software displaying the measurements points on the left hand side window and a picture of the equipment with the measurement point displayed on the picture.



Normal operation

Trendline software provides trending of overall spectral values as well as displaying the time waveform and spectrum data.

Printed: 8/30/2002 3:53:11 PM

Alarm report

Your Power Co.

Main-alarm

Section: Bottom Floor

Machine	Measuring point	Char. value	Measurement	Alarm	Pre-alarm	Transgression Date
Compressor Motor	1H	Vsel	94.65 mm/s	15.00 mm/s	50%	530.99%
			46.03 mm/s	15.00 mm/s	50%	206.87%
			8.77 mm/s	15.00 mm/s	50%	76.96%
			9.30 mm/s	15.00 mm/s	50%	23.95%
			7.69 mm/s	15.00 mm/s	50%	2.52%
			7.83 mm/s	15.00 mm/s	50%	4.43%



Trendline software also provides alarm reports.