

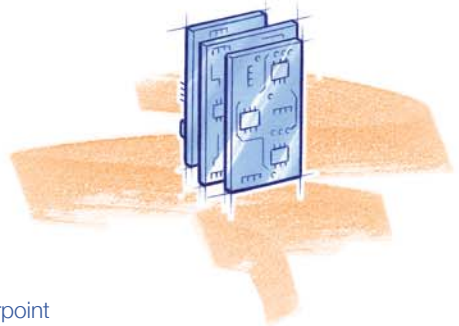
Diagnostic Solutions prides itself on being at the forefront of rapid prototyping and maintains a 'building block' approach to solving plant process and dynamic measurement problems.

We are committed to the deployment of effective low cost Condition Monitoring solutions and realise that having your own badged product is critical to your company image. The OEM design service is particularly suitable for the following sectors:

- ✓ CMMS (CAFM) Software houses with no condition monitoring capability
- ✓ Condition Monitoring manufacturers wishing to re-use the USB-Acc card or USB-Vib products
- ✓ Any development house wishing to sample dynamic data and forward feed through USB standards.

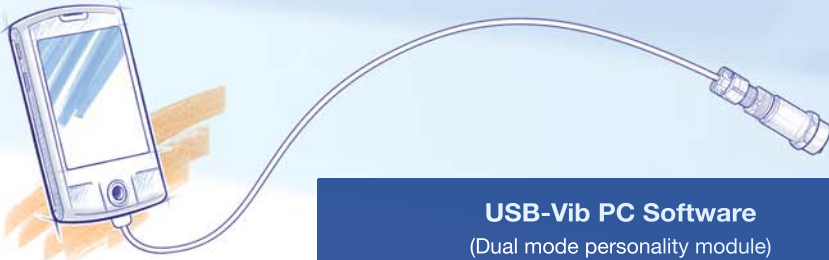
We are happy to discuss any bespoke design projects from board/driver supply all the way to a custom hardware/software solution. A few examples are listed below:

- Embedded / in-line USB-Acc card sets and variants
- Portable System customization (USB-Vib)
- **SmarTrend** web application as a module
- Sensors and Switchboxes



Please refer to the full product brochures or powerpoint presentations for further details on any particular

Diagnostic Solutions product at www.diagsol.co.uk



USB-Vib PC Software

(Dual mode personality module)

Frequency Increments (Hz)	50,100, 200, 500, 1k, 2k, 5k, 10k
No of Lines	100, 200, 400, 800, 1.6k, 3.2k, 6.4k, 12.8k
Filter Options	2Hz HP, 2kHz LP
Pre-Demodulation Band Pass Filters	1kHz-2kHz, 2kHz-4kHz, 4kHz-8kHz
Measurement Parameters	Time & frequency domain (g's, demod g's and velocity)
Symptoms*	Velocity (1x, 2x and ISO 10816) Demodulated g's (Carpet & Non Synch Energy)
Built in Alarms (ISO based)	Sets based on 6 frequency ranges and 7 asset types
Navigation	Route based** or meter mode with csv save

* Symptom set constantly under review and development

** Route based data collection requires **SmarTrend** or OEM software

Pocket PC Software

White Label Resources

API and DLL Environments	Visual Studio, eVC4
Pocket PC App re-use	Meter Mode – Name and bitmap required Route Mode – Route data stored within route file as csv (API available)
Sensor Calibration and ID	Auto cal based on reference signal, USB flash ID stack
Custom Application Support	Integration coding services, API function & database library set, Personality module binary & open source modules



	USB Acc
Size	30mm A/F x 60mm H
Weight	130grms
Frequency Response	2Hz – 10kHz
S/N Ratio	96dB
Noise	< 0.001g
Power	USB Host
Compatibility	Min 400MHz XScale, Windows Mobile, Windows XP, Vista
EPROM Calibration	Stored ref 1g \pm 3%
Cross Axis Sensitivity	< 5%
Temperature Range	-25 to 80°C
Data Feed	Streamed Digital (no storage)



SmarTrend Web portal

Platform	Compatible with all web browsers, no update or installation issues, annual subscription, Microsoft ASP.NET
Compatibility	Drivers for USB-Vib, WiVib 4/4, Vpod16, DS460 (Interface API free issue and web downloadable)
Security	Access controlled by Administrator
Status View	Viewing of Plant asset recent and historic status, Sorting by criticality and status. Live View Report capability.
Plotting	Symptom Trend, Process Trend, Time and Spectra
Plot Controls	Up to 6 symptoms selectable, statistical, saved views, plot select for custom reporting
Outputs	Live View and Custom Reports, email and SMS fault alert
Alarms	Fixed and custom symptom based alarms combined with Maintenance action trigger rule sets
Interface/ Data exchange	OPC and CMMS data exchange via MIMOSA

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