



Machinery Health Monitoring Tools from testproductsintl.com • 800.368.5719

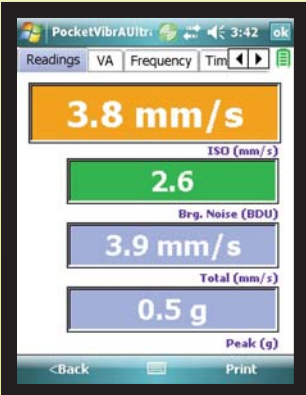
Bearing & Lubrication Problems? High Maintenance Costs? Reliability Issues?



The TPI Solution . . .

- Affordable
- Easy to Use
- C-Trend Software predicts breakdown based on conditions
- Rugged, Built to Last!

Choose one of these four products designed for your budget and needs:



Pro

Diagnose basic vibration problems: out of balance, misalignment, looseness, and bearing damage.

Ultra

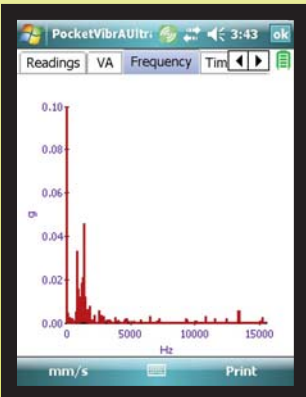
All features of Pro plus very high resolution (51,200 lines), RFID and bearing database capability.

Balancer

Balancing wizard: Single and two plane balancing wizards guide you through the process of balancing.

Lube

Determine the optimum amount of lubrication to add to bearings by monitoring the bearing noise before, during and after the addition of lubricant.



C-Trend Software gives you greater ease of use and flexibility.

- Store, analyze and report on all your vibration, lube and process parameters (e.g. oil pressures, lube volume, temperature, run hours, etc.) in one place.
- All information is just a click away. Color coded alarms highlight problems. Trend lines show problems before they happen.
- Data can be accessed anywhere on any machine, with optional networking software. Plant history is everything and C-Trend turns it into useful information with the click of a mouse!

Be Safe ! Prevent Downtime ! Reduce Costs ! !

Test the TPI Advantage
Value • Performance • Service • Safety

Pro Diagnose basic vibration problems: out-of-balance, misalignment, looseness, and bearing damage. Analyze bearing wear. IEPE (constant current) accelerometer connection. Includes C-Trend software. Optional RFID accessory/tags identify measurement points.

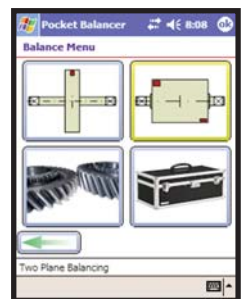
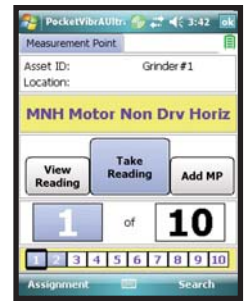
Ultra All Pro features Plus: User selectable envelope demodulation filters. High resolution spectrum up to 51,200 lines FFT, at 15 KHz. Time wave-form, bearing fault frequency cursors and harmonic cursors. RFID built-in to identify measurement points.

Lube Determine the optimum amount of lubrication to add to bearings by monitoring the bearing noise before, during and after the addition of lubricant. Easy-to-read display shows bearing noise in bearing damage units (BDUs). Lubrication points and lube type can be automatically identified with optional RFID accessory/tags. Saves any process readings for later recall and trending on PC

Balancer Balancing wizard: Single and two plane balancing wizards guide you through the process of field balancing. Graphical and tabulated data are displayed with color coding. Saves and loads balancing sessions. Vibration units can be chosen as displacement, velocity or acceleration. Use metric, imperial or custom units of measurement for mass and length. Angle measurement can be with or against rotation. RPM Measurement: measure rotation speed of equipment using laser probe and reflective tape; up to 50,000 RPM. Display in RPM and Hz. Useful features include Trial Weight Calculator: estimates trial weight for balancing process based on rotor weight, rotor speed and radius of trial weight; weight addition or removal (drill depth calculation) fixed point balancing for fans.

RFID Ensure fast and accurate data collection with RFID technology. RFID is standard with Ultra and an optional accessory for Pro and Lube.

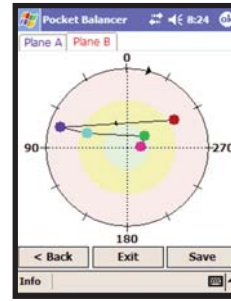
Inspection Uniformly collect and report data with optional inspection feature for Pro, Ultra, Lube and Balancer. Can be ordered as a stand alone device.



Breakdown Maintenance
(What the dinosaurs did!)



C-Trend Software Our latest condition based monitoring (CBM) software offers greater ease of use and flexibility. Store, analyze, and report all your vibration, lube, and process parameters (i.e. oil pressures, lube volume, temperatures, run hours, etc.) in one place. All your information is just a click away. Optional network access allows data to be stored on a server for easy organization and back up. *The plant history is everything and C-Trend gives you that with just the click of a mouse.*



Run	Amp. [mm/s]	Angle [°]
Initial	9.035	265.5
Trial A	10.271	36.0
Trial B	6.058	39.0
Balance	2.419	269.0
Trim	---	---

Rotor Balance meets the specified ISO quality grade.
Balance Job Done!



The plant history is everything and C-Trend gives you that with just the click of a mouse.

Be Safe • Prevent Downtime • Reduce Costs

Routine Maintenance
(Historically what most people have done.)



Machinery Health Monitoring
What SMART people are doing today!



	Pro	Ultra	Lube	Balancer
Hardware				
Rugged IP67 Handheld	✓	✓	✓	✓
Color Touchscreen	✓	✓	✓	✓
RFID	Option	✓	Option	
Docking Cradle	Option	✓	Option	Option
Rechargeable Lithium Ion Battery	✓	✓	✓	✓
AA Battery Pack	Option	Option	Option	Option
C3 Intelligent Accelerometer		✓		✓
Constant Current accelerometer input	✓	✓	✓	
2 Plane Balancing		Option		✓
Handheld Functions				
Bearing Fault Detection	✓	✓		✓
Instability / Unbalance / Misalignment Detection	✓	✓		✓
FFT Graphing	✓	✓		✓
Time Waveform Graphing	✓	✓		✓
Asset Management	✓	✓	✓	
Route Based Data Collection	✓	✓	✓	
Envelope Demodulation		✓		
User programmable Envelope Filters		✓		
800 Line FFT				✓
800/1,600/3,200 Line FFT	✓	✓		
Up To 51,200 Line FFT		✓		
Data Export to File	✓	✓		✓
Lubrication Routes	Option	Option	✓	
Options				
Vibration Trending	✓	✓		
Lubrication Trending	Option	Option	✓	
Process Parameter Trending	✓	✓	✓	
Remote/Server Database	Option	Option	Option	
Report Generation	✓	✓	✓	✓
RFID	Option	✓	Option	
Balancer		Option		✓
Inspections	Option	Option	Option	

Special requirements not covered by our standard products?

No problem ... contact TPI CBM OEM sales and we'll work with you on a solution.

www.tpi-thevalueleader.com

Contact: