



## **ProvibTech's PCM360 machine condition management system update to Version 3.51**

July, 2009

### **New features on Version 3.51**

1. Support multiple plants
  - a) Support multiple SQL databases on the network
  - b) DISP user can select any SQLs on network for analysis and monitoring
2. Support static data acquisition on each measurement point.
  - a) Full option of PCM360 will support static, dynamic and transient data acquisition.
3. Support DTM/DM condition monitoring via digital network
  - a) Waveform and spectrum upload now are available on communication link
  - b) Both RS485 and TCP Ethernet are now available
  - c) Support phase reference
  - d) Support shaft XY vibration with phase reference (DM200 only)
  - e) Modbus and waveform on single digital communication line
4. New Full-Cascade plot
  - a) Available in this version
5. Data acquisition on process variables
  - a) Dual alarms on any process variables that can be imported from DCS/PLCs
  - b) Conditions on process variables can be programmed to trigger system data acquisition
6. System improvement
  - a) COM on system tray
  - b) DISP on system tray
  - c) SQL mgr. on system tray
  - d) Backups can be exported to other systems (version equal or higher)
7. Improved trend plot
  - a) 1X, 2X, Not1X, GAP, 1X phase, 2X phase now available on any trend plot. This is also available on real-time and history data
  - b) Trend on transient data
  - c) Trend on mixed transient and dynamic data
  - d) Trend can be zoomed in or out based on time and date
8. Improved transient algorithm
  - a) More accurate on all transient plots
  - b) More smooth than previous version
  - c) RPM color on all transient plots
9. Waterfall plot improvement
  - a) Display on selected time interval
  - b) Marker information display on each spectrum line
  - c) Double click to see individual waveform and spectrum
  - d) Auto full-scale



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10. FFT improvement

- a) FFT process windows (hanning, rectangle etc) are now available on customer setup
- b) Scale factor is also available
- c) Improved full-spectrum algorithm

11. Phase reference configuration improvement

- a) Setup on phase reference now can be much easier by the viewing of real-time graphics
- b) Trigger can be programmed on leading edge or falling edge

12. Misc. improvement

- a) Improved alarm list speed
- b) X, Y channel indication on all graphics near cursor
- c) NX, Not1X on menu
- d) RPM on all valid plots