

**3.0.16**

This Version is compatible with all previous versions marked 3.0.x where x is any number.

**Windows Vista/7 Compatibility Changes**

- ExpCfg requires administrator privileges
- Calibration is now accessed through ExpCfg
- Default database directory on Windows 7/Vista is C:\ProgramData\Baker Instrument\ExpDB
- Default archive directory on Windows 7/Vista is C:\ProgramData\Baker Instrument\Archives
- Traditional Daq is not supported for Windows 7. All Explorers using the 6024E must switch to NIDaq and any using the AI16E4 cannot be upgraded to Windows 7/Vista
- Fixed .adb startup issue where the sync dialog shows up behind the splash screen so that the user can not access it.
- Fixed demodulated spectrum issue where it crashes when closing the demodulated spectrum.

**3.0.15**

- Added vibration functionality to scope in calibration environment for DAQmx devices.
- Implemented graceful recovery from DAQmx buffer overflow errors.
- Implemented startup transient trigger detection for DAQmx devices.
- Added warning message for nameplate voltage between 600V and 1000V.
- Fixed VFD spectrum acquisition upon program entry.
- Fixed the scope in the calibration environment for DAQmx devices.
- Extended the input signal range to the full +/-10V range of the NI-DAQ cards.
- Corrected symmetrical components phase angle calculation.
- CM - Changed RMS and Power Equations to operate only complete cycles only
- Changed Sensor Ratio Requirement to 1000 Volts
- Set 6211 to use port 1 for DIO
- Fixed in compatibility issues with converting an AWA database that are result from the addition of the modified column in 3.0.13
- Added NetEPDaq Driver which remaps channels and does not perform voltage phase shift
- Set the default spectrum acquisition time to 30 seconds for both VFD and line operated machines.
- Fixed error on trending report in which the trend line was not always drawn from the oldest point to the newest point.
- Removed Over/Under Voltage information from reports on VFD report
- Changed Torque ripple graph to use filtered torque same as the software displays in torque ripple.
- Added Torque vs Speed and Voltage vs Freq graph to VFD Reports
- Added Frequency information to Electrical Result Page for VFD Reports
- Modifications to DaqMx drivers for USB Daq Device Support
- Fixed problem with torque ripple graph where the torque ripple is always in Nm despite the Y Units will change to ft-lb or Nm. The torque ripple units now will match the units displayed on the Y-Axis.
- Modifications to the German RTF Report
- Added support for Italian RTF Report

- Modifications to the German Version of the UI
- Added ability to Select the language of the report to one of the supported languages despite the current language.

### **3.0.14**

- CM Version Rolled to 1.0.6
  - \* Trigger set up an recall dialog completely redone
  - \* Fixed Pre and Post Trigger Recording problems
  - \* Fixed Duplicate Event Recording
- Changes to the German Version of the Report
- Changed the User Level Dialog
- Added the Rated Voltage and Rated Current Reference circles to the phasor diagram on the RTF reports
- Remove the Add Trending boxes check box and replaced with tool button.
- Add the option for the user to select all machine results or just the results in the report for trend graphs on the RTF reports.
- Add the option for the user to add a marker on the actual measurement points for the trend graphs on the RTF reports.
- Modified the Phase Angle Calibration algorithm to account for counter clockwise rotating phasors.

### **3.0.13**

- Added support for DaqMx drivers
- Speed Estimate has been modified to provide more accurate Speed Estimates
- Added Updated manual version 71-001 Rev C
- Adjustment of new stator resistance algorithm so that it is more accurate when estimating a machine's stator resistance.
- New Report generated method that uses a tree instead of wizard styled dialogs to select the reports to be generated
- Changed reports to use RTF instead of Word Automation
- Fixed invalid Spectrum Acquisition that occurs when the VFD Acquisition Rate has not been initialized.
- Changed the splash screen to use the new Baker Logo
- Added Export of RMS windowed data to startup transients
- Changed Phasor display from a clockwise rotation to a counter clockwise rotation, along with everything that displays angle information.
- CM Rolled to 1.0.5 - Changed Apparent and Reactive Power from an Average to a sum
- Fixed Crash that occurs when deleting a test result from the machine tree
- Added Modified Date to the loc\_tree table

### **3.0.12**

- Fixed database compatibility problem with AWA database version 4.4.3
- Memory leak in Filter routine removed
- Added support for Acrobat Reader 8
- Changed Cutoff frequency on SW filtering to be Rate/2.0
- Added to the offset removed from the beginning for the SW filtering
- Changed the Torque ripple data to remove a constant offset of 2.5 seconds instead of a percentage of what was removed.
- User can decide amount of harmonics to acquire up to the 100th harmonic
- Changed spectrum plot to only display data that has not been filtered
- Default sideband frequencies in bearing marker dialog set to be 2 \* fundamental frequency
- Spectrum view setting (log or linear) is stored and recalled for the user
- Stator Resistance algorithm has been modified
- Axis that where being display on the phasor diagram under connections was removed.

### **3.0.11**

- Location and building no longer empty when editing a machine
- First point in test log no longer shows as zero
- Rotor bar graph now shows a blue line in word report when test is indeterminate.
- Enclosure can now be changed from edit machine
- NEMA Design can now be changed from edit machine

### **3.0.10**

- Removed limitation of 120 seconds for acquisition time for startup transients

### **3.0.9**

- Autophasing dims on a synchronous machine.

### **3.0.8**

- Switched to SW filtering instead of HW filtering

### **3.0.0**

- Splash screen changed.
- Default Machine can now be deleted, and is no longer a requirement of a database.
- MotAna1 database is no longer required in order for the software to run.
- Create New Database Dialog has changed.
- Open Database has changed to a standard windows Open File Dialog.
- All instances of the Name 'Motor' should have been changed to 'Machine'
- 'Motor Tree' Option under File has been Moved to under 'Machine' and renamed 'Machine Tree'
- Removed the recall/delete test results menu option
- Add ctrl+n Hotkey for New Database.
- Added Hot-key (ctrl+f2) for word report.
- Added Hot-key (ctrl+o) for open database

- Removed hot key esc for exit, Replaced with standards Windows Hotkey combination Alt+F4
- Removed the Assign Motor menu option.
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- Edit test model now has a dialog that allows you to pre-view the test model before editing it.
- Delete test model now has a dialog that allows you to pre-view the test model before assigning it.
- A test model is now assigned to a Machine and not to a test so that the test model used is consistent and what the user assigned.
- Changed the look and grouping to the create/edit test model tabbed dialog and added total distortion caution and warning variables.
- Changed the look and grouping to the create/edit test model tabbed dialog and added total distortion caution and warning variables.
- Changed the dialog of the spectrum acquisition options to a hopefully more understandable one, that allows a wider range of acquisition settings.
- Total distortion is now added as a Test, results for the test have been added to reports also.
- Units on the Rotor bar graph are now displayed in db.
- Rotor bar graph now displays an average of IA, IB, and IC instead of just IA and should make the graph cleaner.
- As the Electrical Acquisition Time increases so does the lines of resolution displayed on the rotor bar graph.
- Test log graph cursors now represent the currently loaded test.
- Ability to rename "Building" and "Location" to a more suitable name if desired.
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- Floating Machine Tree that stays open when a Machine is recalled.

