

FW Bell 8000 Gauss Meter Release Notes

Release 1.6.2 – 9/28/2016

- Added FAST SCPI measurement commands
- When AC filter is set to No Correction, frequency correction factors are no longer applied
- Fixed an issue that caused the polarity of Peak and Valley Hold values in AC mode to be reversed
- Fixed an issue that prevented the Waveform trigger level setting from being restored after a power cycle

Release 1.6.1 – 9/28/2015

- Fixed an issue that caused the *Clipping* indication on the meter display to partially obscure the *Hold* display

Release 1.6.0 – 7/10/2015

- Added *Boot at Power On* feature (requires updated front panel firmware)
- Added a *Clipping* indication if any channel is receiving a signal strong enough to cause its amplifier to clip
- Added several new diagnostic routines that run at power on and report errors if the results are out of spec
- Fixed an issue that caused an overrange condition when toggling out of Auto Range via the front panel buttons. Now the meter remains in the range determined by Auto Range
- Fixed an issue where the X, Y, and Z channels of a 3-axis probe were not properly labeled in the web interface.
- Fixed an issue where an erroneous value appeared on the web interface for the Y and Z channel probe temperatures on a 3-axis probe. Only the X axis channel shows the probe temperature now.
- Fixed an issue that caused the AC signal as observed at the Corrected Analog Out connector to be inverted; The polarity of the signal is now correct.
- Fixed an issue that caused the AC signal as observed on the Waveform Mode display to be inverted; The polarity of the signal is now correct.

Release 1.5.0 – 9/30/2013

- Added support for connecting meter to GPIB with USB adapter
- Added ability to configure RS232 port for different speeds, parity, etc.
- Added remaining SCPI commands to support full control of the meter via RS232, GPIB, or Telnet
- Added data logging to USB drive or internal flash
- Added web interface to allow full control of the meter via a web browser on a PC

Release 1.4.2 – 8/6/2013

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- Fixed an issue that caused incorrect scaling in waveform mode when flux density units were changed

Release 1.4.1 – 6/5/2013

- Fixed an issue that caused an intermittent failure of the analog cards at boot time on a small number of units, resulting in the display of the No Card Present error message

Release 1.4.0 – 2/6/2013

- Added waveform display functionality
- Fixed an issue that caused the caption, “No Probe Present” to be displayed briefly at powerup even when a probe was connected

Release 1.3.3 – 1/10/2013

- Added SCPI command for streaming flux readings (*:MEASure#:FLUX:STReaming?*)

Release 1.3.2 -- 11/15/2012

- Added classifier relay functionality
- Added manual zero functionality
- Added manual relative functionality
- Added new options for auto zero that allow a much faster zeroing operation
- Added SCPI commands for classifiers, relative, hold, and units
- Fixed an issue that caused the front panel button backlights to flash erratically at times
- Fixed an issue that resulted in range being available even though meter was zeroed with a field that exceeded that range
- Enhanced the accuracy of the two new AC filter modes added in release 1.3.0

Release 1.3.1 -- 10/10/2012

- Fixed an issue that resulted in slight variations between readings in DC mode when meter was power-cycled

Release 1.3.0 -- 10/1/2012

- Added support for MagnaProbe
- Added support for Ultra Low Field probe
- Added new AC filter modes for capturing pulses
- Fixed a problem where the meter occasionally failed to read the information in a probe if the probe was inserted slowly, causing an intermittent connection
- Fixed a problem where certain error messages could be missed at power up
- Various bug fixes and enhancements

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Release 1.2.1 – 8/6/2012

- Fixed a problem where the meter failed to read the information in a probe after being run in one of the two lowest frequency AC filter modes

Release 1.2.0 – 7/25/2012

- Displays vector sum (8030 only)
- Added ability to display any number of channels (8030 only)
- Added support for 10X probe
- Enhanced hold functionality – Peak and Valley hold added
- Added “Configuring Probe” to display immediately after probe insertion to notify user that the probe is being read and configured
- Implemented Vm probe temperature compensation
- Fixed notifications for changes in relative mode – button backlights and menu labels
- Fixed behavior of button backlights when coming out of standby mode
- Added all channels hold menu
- Various bug fixes and enhancements

Release 1.1.0 – 4/24/2012

- Enhanced processing in both AC and DC modes for more stable and accurate readings
- Added SCPI commands: :MEAS#:FLUX?, :MEAS#:FREQ?, :MEAS#:TIM?, :MEAS#:TEMP?, :DISPlay:RATE
- Added basic error handling and error message display
- Added probe temperature to the standard display
- Various bug fixes and enhancements

Release 1.0.1 – 3/8/2012

- Added SCPI commands for analog output, zeroing, AC filtering, etc.
- Added auto range functionality
- Changed flashing zero button behavior such that it only happens one time 15 minutes after startup or probe insertion
- Various bug fixes and enhancements

Release 1.0 – 2/16/2012