

## SLII - Version 1.16 - Release Notes:

**NOTE: When upgrading to version 1.16 from 1.13 or lower it is necessary to perform a “Fail Safe” upgrade. Refer to [Upgrade Instructions](#).**

Fixed a bug which caused excessive power consumption.

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Fixed a bug that would cause the Bluetooth module to turn on unexpectedly.

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Fixed a bug that could leave the Memory LED on after an erase memory operation.

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Saved the On/Off state of the BT module (as last set by the user) into EEPROM. On reset/startup the On/Off state of the BT module is set based on this previously saved value.

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## SLII - Version 1.15 - Release Notes:

**NOTE: This version requires a “Fail Safe” upgrade method when upgrading from previous versions.**

Modified code to support turning the BT module on and off via the control button.

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Fixed a bug in the boot loader code that prevented the logger from recovering gracefully from a reset.

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Removed code that would enable communications when a recording started. This would turn BT on for the BT models, even if it had been turned off by the user.

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Removed the communication count down that would prohibit the BT from being turned off for a period of time after communication ended. Now the user can turn off the BT immediately, even if it is communicating with the PC.

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Modified code to erase memory and not just set the index pointers when an erase memory command is given (via button control or remotely).

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Fixed a bug in the L404 that would flash the memory LED much too slow when the erase command is originally given (via the control button).

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### **SLII - Version 1.12 - Release Notes:**

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Fixed bug with multiple XRM recordings not being downloadable.

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Modified code to support turning the BT module on and off via the control button.

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Modified code to support turning the BT module on and off via the control button.

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Modified code to support the moved Low Battery indication in the Bluetooth models.

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Added code to detect when an instrument is powered via USB. This is used as a Kick Start.

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Added code that keeps the instrument awake at the start of a recording for five minutes. This provides time for AC models to acquire a lock on the line frequency before going to sleep.

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### **SLII - Version 1.11 - Release Notes:**

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Added support for store on alarm to all models (except the event logger L404).

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### **SLII - Version 1.10 - Release Notes: L562 only**

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Removed DC from the voltage channel of the model L562.

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### **SLII - Version 1.09 - Release Notes: L642 and L404 only**

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Fixed a bug in the TC logger that would prevent the use of CJC during calibration verification. This does not effect normal operation.

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First release of the L404 Firmware.

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Added code to delay the start of a recording by an analog settling time when started from the push button. Also when started from the instrument control panel.

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### **SLII - Version 1.08 - Release Notes: L562 only**

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Fixed a bug with frequency tracking for the model L562.

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### **SLII - Version 1.07 - Release Notes: L642 only**

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Modified the overload threshold for the T type thermocouple from -270 deg C to -200 deg C.

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### **SLII - Version 1.06 - Release Notes:**

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Modified firmware to show low battery indications (single flash blue LED) when the battery voltage falls below 2.2V with a hysteresis of 0.05V.

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Modified firmware to not allow a connection with the PC to be established when we have a low battery.

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Modified the firmware to use fixed (hard coded) values of 2.20V and 1.70V for low battery and very low battery thresholds.

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### **SLII - Version 1.05 - Release Notes:**

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Modified the firmware to set the recording start time to 0x00000000 when the user stops a recording. This will prevent unwanted recording starts when configuring the instrument.

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Increased the general purpose configuration area to 70 bytes up from 62 bytes. This is done such that the linearity scale values can have a range of +/- 10000 (up from +/- 100).

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Fixed a bug that would cause the DC and TC loggers to hang up when the battery low threshold was reached.

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Modified firmware to allow for user defined channel units to be saved in the instrument.

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Added support for storing linearity values inside the instrument. These values are not used by the instrument but are available for the PC software to utilize.

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The instruments General Configuration register map is now included in the recording session header.

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Modified L562 firmware to calculate and apply DC offset to the current channel (but not the voltage channel).

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## SLII - Version 1.04 - Release Notes:

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The instrument now turns ON when a connection with the Control Panel is established.

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The instrument can no longer be turned off if it is recording. Note that turning the instrument off did not stop it from waking up at the scheduled interval to take a measurement and store the result. No data loss would occur.

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When the instrument is turned off, the OFF LED will now flash twice if a recording is scheduled to start at some time in the future.

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The instrument now returns to the Stand-by state when a scheduled recording starts. This change causes the instrument to resume flashing of LEDs when a recording starts. This not only affects the display when the instrument is OFF, but also when it is asleep.

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Added support for the Clear Alarms command from the Control Panel software. Previously, alarms could only be cleared by erasing memory.

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The instrument now gives a warning when erasing alarms. Just like the erase memory warning requiring a second button press but it flashes the alarm LED.

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The instrument now requires a button press to resume front panel operation when in the sleep mode. This makes sure that an undesired operation is not performed by accident. As soon as the button is pressed when the instrument is in sleep mode, all LEDs light. This is similar to turning the instrument ON. However unlike being powered off (which requires at least a 1 second button press to have all LEDs light) in sleep mode all LEDs light right away.

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A bug existed in that if a fail safe flash upgrade was performed on an AC logger, the timer update rate was not set correctly. This was the result of code added for reset recovery. Code was added that validates the timer period even if a full reset is not required. This bug would manifest itself as a solid on red LED when trying to erase memory. This condition could also be cleared by starting and stopping a recording.

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The instrument now utilizes the internal Watch Dog Timer to help automatically recover in the event of a fault condition.

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