

Date	Description	Revision History
6/2/2006	34405A firmware update to 1.19-3.05 (Changed from V110-V303)	<p>1. Solve the firmware download issue for a particular batch of new ATMEL IC.</p> <p>2. Error 631 on InGuard is resolved.</p>
6/28/2006	34405A firmware update to 1.20-3.05	<p>1. Error 635 will pops up if user download only the MB firmware. Reason is the OPC code was not sent after the reset. Solution ---- sent the OPC code.</p> <p>2. Once in a while the CAL checksum is cleared while performing calibration (either manual or remote) Reason is the one public variable's value was changed. Solution ---- that variable is now been set to local.</p> <p>3. Once in a while the calibration data or serial number is cleared while performing calibration Reason is the clear and saved of data into EEPROM has some instability. Solution ---- restore the data again when something goes wrong.</p>
9/7/2006	34405A firmware update to 1.21-3.05.	1. Eliminate 30-50 digits error on ACV 100mV 10kHz.
10/13/2006	34405A firmware update to 1.26-3.07	<p>A. CONF: FREQ DEF,DEF</p> <p>B. FREQ's null offset, HI/LO limit max values are +/-1.2e6.</p> <p>C. HI/LO limit status on local mode.</p> <p>D. Initiate 1Hz range on CONF: FREQ</p> <p>E. Wait measuring OPC</p>

1/29/2007	34405A firmware update to 1.33-3.07	<p>A. Correct values of "Hold" and "Null" functions at 150 degree Celcius.</p> <p>B. Add error messages: Input short while calibrating CAP open; Input open while calibrating RES short.</p> <p>C. Resolve "DCI" and "ACI" auto ranges issues when input 10A.</p> <p>D. Resolve wrong reading issues of "MEAS:CURR:DC?", "AUTO", "MEAS:CURR:AC?", and "AUTO command", when input 5A.</p> <p>E. Add "EEPROM" and "Flash" protection to resolve the issue of zero calibration data being changed at 100M ohm fast mode.</p>
8/7/2007	34405A_firmware update to 1.39-3.08	<ol style="list-style-type: none"> 1. Resolve DISP:WIND2:SEL:? bug. 2. Resolve to run Agilent Intuilink Timeout Issue. 3. Resolve slow reading speed using *OPC?. 4. Stop MB's MCU process after low voltage detect for protecting Flash's and EEPROM's content. 5. Resolve SMPS issue by changing key scan rate to 10ms de-bounce 5 times. 6. Frodo can run the CAL? command before the READ? command. 7. Protect Flash's and EEPROM's content barred the writing way from bootloader. 8. Resolve the ACI with 45kHz deviation issue by switching K5 relay and MB's PCB add short to COM.

5/30/2008	34405A firmware update to 1.40-3.08.	Speed up DCV, DCI, ACV, ACI and FREQ on range change, function change and auto range.
9/7/2010	34405A firmware update to 1.40-3.10.	<ol style="list-style-type: none"> 1. Resolve USB connection hang issue when connected to USB2.0 hub. 2. Resolve USB connection hang issue when Remote-To-Local command was sent too many times.
6/8/2011	34405A firmware update to 1.40-3.11	<ol style="list-style-type: none"> 1. SPI driver update.
25/4/2012	34405A firmware update to 1.46-3.11	<ol style="list-style-type: none"> 1. Resolve hold feature in auto range mode and negative value. 2. Resolve MinMax feature in auto range mode. 3. Resolve MinMax feature in manual range mode. 4. Resolve >10kHz frequency measurement stop issue. 5. Resolve reset issue of utility. 6. Resolve intermittent turn ON failure
10/1/2013	34405A firmware update to 1.47-3.13	<ol style="list-style-type: none"> 1. Resolve "Timeout Error".Dut will timeout intermittently when capturing data repeatedly. 2. Resolve wrong average value when resolution set to MAX. 3. Resolve "Error 260" when DUT continuously moving from remote mode to local mode. 4. Resolve "Error 635" when DUT warmed up, Unit will intermittently show Error code 635 and causing USB connection

14/2/2014	34405A firmware update to 1.50-3.14	<ol style="list-style-type: none">1. Resolve "MEAS:CURRE:DC? AUTO" and "MEAN:CURRE:AC? AUTO" returning wrong value.2. Resolve reading hang/no update during DCV+ACV mode and DCI+ACI mode.
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