Models 6220 and 6221 Current Sources

Version E02 Firmware Release Notes

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GENERAL INFORMATION

SUPPORTED MODELS

CAUTION

If your Model 6220 and 6221 has firmware version Axx or Dxx installed, do not upgrade to version Exx. Likewise, do not attempt to downgrade instruments running firmware version Exx to versions Axx or Dxx. Your instrument may become unresponsive and require service.

This firmware is used on the following Keithley Instruments products:

Model 6220 DC Current Source

Model 6221 AC and DC Current Source

UPGRADE CONSIDERATIONS

Consideration	From version Axx	From versions D01, D02, D03, or D04	From version E01
Recalibration required?	Not applicable	Not applicable	No
Backward compatibility concerns?	Not applicable	Not applicable	No
Requalification recommended?	Not applicable	Not applicable	No
Should you upgrade?	No	No	Yes. See NOTE.

NOTE

Review the changes made in all firmware versions between your current version and version E02. Upgrade if any of the fixes or enhancements are needed.

FIRMWARE UPGRADE INSTRUCTIONS

Use Keithley Flashwizard to install firmware version E02. The software is available from tek.com/en/support

VERSION E02 RELEASE

OVERVIEW

Version E02 6220 and 6221 Current Sources Firmware provides fixes.

CRITICAL FIX

Reference number:	SK-2518
Symptom:	Phase Markers output cannot be generated on the TriggerLink port of the Model 6221.
Resolution:	This issue has been resolved.
Reference number:	SK-2637
Symptom:	Model 6221 flash upgrade not working over ethernet.
Resolution:	This issue has been resolved.

VERSION E01 RELEASE

OVERVIEW

Version E01 is an internal release to support hardware changes.

VERSION D04 RELEASE

OVERVIEW

Version D04 provides fixes to correct the external triggering operation of the waveform output on the Model 6221.

CRITICAL FIX

Reference number:	PR51707
Symptom:	Ethernet communications on the Model 6221 may stop working during high data traffic.
Resolution:	This issue has been resolved.
Reference number:	PR61720
Symptom:	When data is formatted as either SREal or DREal on the Model 6221, byes of 0x00 are sometimes missing in the buffer.
Resolution:	This issue has been resolved.
Reference number:	PR45858
Symptom:	When running a query on the Model 6220 or 6221 for `SOUR:DCON:DELT?`, `SOUR:DCON:START?`, `SOUR:DCON:STOP?`, and `SOUR:DCON:STEP?`, the data is returned in decimal format instead of exponent format.
Resolution:	This issue has been resolved.

VERSION D03 RELEASE

OVERVIEW

Version D03 provides fixes to correct the external triggering operation of the waveform output on the Model 6221.

VERSION D02 RELEASE

OVERVIEW

Version D02 provides fixes to correct built-in test 102.1 on the Model 6221.

VERSION D01 RELEASE

OVERVIEW

Version D01 supports new ethernet hardware on the Model 6221 and supports new flash devices on the Model 6220 and Model 6221.

VERSION A05 RELEASE

OVERVIEW

Version A05 provides fixes.

CRITICAL FIXES

Reference number:	PR32266
Symptom:	The `:SOUR:PDEL:SWE ON` command causes a syntax error on the Model 6221
Resolution:	The command now accepts ON or OFF as arguments as well as 1 or 0.
Reference number:	PR32952
Symptom:	The `:SOUR:LIST:COMP:APP` command does not append compliance values correctly on the Model 6220 and Model 6221.
Resolution:	The issue has been resolved.
Reference number:	PR27279
Symptom:	Selecting wave duration in cycles on the Model 6221 does not show up correctly when re-entering the menu. SET-TIME is displayed instead of SET-CYCLES unless the number of cycles is entered.
Resolution:	The issue has been resolved.