Series 2281S Battery Simulator

Version 1.07 Firmware Release Notes

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Contents

General Information

Supported models

This firmware is intended for use on the following Keithley Instruments product model:

2281S-20-6,

Firmware Upgrade/Downgrade Instructions

NOTE: Do not turn off power or remove the USB flash drive until the upgrade process is complete.
From the front panel:
1. Copy the firmware upgrade file to a USB flash drive. The file is: `ki_2281_V01_07.tfb.`
2. Verify that the upgrade file is in the root subdirectory of the flash drive. 2281 firmware files end with the file extension .tfb. (Example: H:\`ki_2281_V01_07.tfb`)
3. Disconnect any input and output terminals that are attached to the instrument.
4. Turn on instrument power.
5. Insert the flash drive into the USB port on the front panel of the instrument.
6. From the instrument front panel, press the **MENU** key.
7. Under System, select **Manage**.
8. Select the type of upgrade you want to do:
   To upgrade to a newer version of firmware: Select **New**.
   To force downgrading to an older version of firmware: Select **Older**.
9. When the upgrade is complete, reboot the instrument.

Upgrade considerations for all Series 2281S models

The following table lists the considerations that should be made when deciding whether or not to upgrade your Series 2281S instrument firmware to version 1.07.

Consideration for upgrade	From version 1.01
Recalibration required?	No
Backward compatibility concerns?	Yes
Requalification recommended?	No
Should you upgrade?	Review[1]

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[1] Review the entire list of changes made in all firmware versions between your current version and version 1.07 Upgrade if any of the fixes or enhancements are desired.

Version 1.07 Release

Overview

Version 1.07 is the enhancement for 2281S. It adds the script test and capacitance measurement ability to 2281S series power supply and battery simulator. Also, it fixed some bugs found in previous version. See below in this document.

Compatibility concerns

Compares with version 1.01, it has these changes,
1.   Add capacity record inside battery model file.

Critical fixes

CR00508290   **Models affected**

2281S-20-6
Symptom:

DUT will crash after a long time stay.
Resolution:

This issue has been corrected.

CR00509514   **Models affected**

2281S-20-6
Symptom:

UI and RI will be locked up after running commands.
Resolution:

This issue has been corrected.

CR00508289   **Models affected**

2281S-20-6
Symptom:

RI will be locked up after running random stress test
Resolution:

This issue has been corrected.

Enhancements

CR00512748   **Models affected**

2281S-20-6

Enhancement

Implement Test script function.

CR00512749   **Models affected**

2281S-20-6

Enhancement

Implement capacitance measurement.

Noncritical fixes

CR00510858   **Models affected**

2281S-20-6
Symptom:

After *RST, BATT:TRAC:TRIG:VOLT/CURR:STAT cannot set to 1

Resolution:

This issue has been corrected.

CR00511273   **Models affected**

2281S-20-6
Symptom:

Charging / Discharging status fails to be displayed.

Resolution:

This issue has been corrected.

CR00511414   **Models affected**

2281S-20-6
Symptom:

It fails to show "Discharge C" in global area.

Resolution:

This issue has been corrected.

CR00510128   **Models affected**

2281S-20-6
Symptom:

I-Limit in Test mode fails to make effect immediately.

Resolution:

This issue has been corrected.

CR00510139   **Models affected**

2281S-20-6
Symptom:

When select an empty model from Home screen in SIM mode, it should cause an error.

Resolution:

This issue has been corrected.

CR00510003   **Models affected**

2281S-20-6
Symptom:

BATT:TEST:MEAS:EVOC? Timeout when running stress test with GPIB.

Resolution:

This issue has been corrected.

CR00510773 **Models affected**

2281S-20-6
Symptom:

Two focus on entry screen

Resolution:

This issue has been corrected.

CR00509552 **Models affected**

2281S-20-6
Symptom:

When OXP happened, Calculation results display partly.

Resolution:

This issue has been corrected.

CR00510482 **Models affected**

2281S-20-6
Symptom:

LXI: Copy All on Data Logging lost data that after overflow happened

Resolution:

This issue has been corrected.

CR00509551 **Models affected**

2281S-20-6
Symptom:

LXI: when OXP occurred Vmax, Vmin, and Vavg are wrong

Resolution:

This issue has been corrected.

Known issues

N/A

Version 1.01 Release

Overview

Version 1.01 is the initial release for 2281S. It provides the functionality of 2281S series power supply and battery simulator. No fixes are listed since this is the very first firmware release. Known Issues, Usage Notes, and Upcoming Enhancements are listed below in this document.

Compatibility concerns

N/A

Critical fixes

N/A

Enhancements

N/A

Noncritical fixes

N/A

Known issues

N/A