

Important information

These release notes contain important information about version 1.2.0 of the Tektronix MPSU50-2ST firmware.

Introduction

This document provides supplemental information regarding the behavior of the MPSU50-2ST firmware. This information is grouped into the following categories:

[Revision history](#)

Lists the date of the firmware release, the version of firmware, and the document version.

[Firmware version compatibility](#)

A cross-reference for compatible mainframe and module firmware versions.

[New features / enhancements](#)

Summary of each significant new feature and enhancement.

[Problem fixes](#)

Summary of each significant firmware bug fix.

[Installation instructions](#)

Detailed instructions describing how to install the firmware.

Revision history

This document is periodically updated and distributed with releases and service packs to provide the most up-to-date information. This revision history is included in the following table.

Date	Firmware version	Document number
7/10/2026	V1.2.0	077194201
4/21/2026	V1.1.0	077194200
9/16/2025	V1.0.1	Initial release

Firmware version compatibility

MP5103	1.0.1	1.0.3	1.1.0	1.2.0
MPSU50-2ST	1.0.1 or older	1.0.1 or older	1.1.0 or older	1.2.0 or older
MSMU60-2	1.0.0	1.0.2 or older	1.1.0 or older	1.2.0 or older



VERSION 1.2.0

New features / enhancements

Issue number	TREB-10023
Model affected	MPSU50-2ST
Enhancement	Slew rate can now be controlled from the mainframe front panel and web interface.
Issue number	TREB-14851
Model affected	MPSU50-2ST
Enhancement	A mainframe and module firmware version compatibility table has been added to the release notes.
Issue number	TREB-14965, TREB-14485
Model affected	MPSU50-2ST
Enhancement	The <code>slot[Z].bank[X].meminfo()</code> command has been added. This command returns the amount of memory used and available for use by a module memory bank. See the <i>MP5000 Series Programmer Manual</i> for details.

Problem fixes

Issue number	TREB-12425
Model affected	MPSU50-2ST
Symptom	When relative offset is disabled, the relative offset level is not saved to a configuration list.
Resolution	This issue has been resolved.
Issue number	TREB-14406
Model affected	MPSU50-2ST
Symptom	The web page interface and the front panel PSU power output buttons may indicate that output is off when output may still be on and slewing down at set slew rate. Selecting the button during this condition queues the operation, leading to the power supply becoming unresponsive.
Resolution	This issue has been resolved.
Issue number	TREB-14872
Model affected	MPSU50-2ST
Symptom	A trigger model making high speed measurements that trigger an overflow or limit condition in the status model on channel 2 may cause the module to become unresponsive.
Resolution	This issue has been resolved.

Issue number	TREB-14918
Model affected	MPSU50-2ST
Symptom	Generating a large sweep multiple times may cause an "Out of Memory" error.
Resolution	This issue has been resolved.

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New features / enhancements

Issue number	TREB-12244
Model affected	MPSU50-2ST
Enhancement	New configuration list functionality. See the new <code>slot[Z].psu[X].config.*</code> and <code>slot[Z].psu[X].configlist.*</code> commands in the <i>MP5000 Series Programmer Manual</i> for details.

Problem fixes

Issue number	TREB-12451
Model affected	MPSU50-2ST
Symptom	Creating many configuration lists on a module may use all available memory on that module and cause the mainframe to become unresponsive.
Resolution	This issue has been resolved. Using all available memory will generate an -225 Out of Memory error, but the mainframe will not become unresponsive.
Issue number	TREB-12972
Model affected	MPSU50-2ST
Symptom	Updating the measure count between some trigger model runs fails to produce the expected number of readings.
Resolution	This issue has been resolved.
Issue number	TREB-13018, TREB-13134
Model affected	MPSU50-2ST
Symptom	Recalling a configuration list index that does not exist or has not been configured will cause the system to become unresponsive.
Resolution	These issues have been resolved.
Issue number	TREB-13358
Model affected	MPSU50-2ST
Symptom	A system crash may occur when an OVP condition occurs on a PSU channel that is not included in a trigger model that is controlling the second channel of the module.
Resolution	This issue has been resolved.

Installation instructions

Use a USB flash drive to update the firmware from the front panel for the mainframe and modules. The latest firmware is available from tek.com.

Make sure that the firmware is loaded onto your USB flash drive, then insert it into the USB port on the front of the mainframe.

The update process is the same for the mainframe as it is for the modules. The following example demonstrates the firmware update for a module.

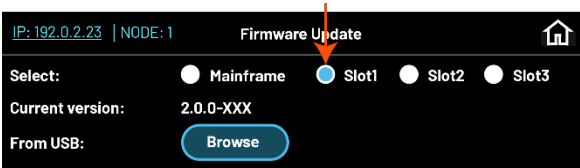
CAUTION

Do not remove the USB drive, turn off the instrument power, or otherwise interrupt the firmware update process. Your instrument may become unresponsive and require factory service.

The following procedure updates a module with mainframe firmware V1.0.1 or newer installed. If you need to update using an older mainframe version, replace the first two steps in the following procedure by selecting **General info** from the home screen and then selecting the firmware download icon.

To update the module firmware (mainframe V1.0.1 and newer):

1. Select **Settings** from the mainframe home screen.
2. Select **Firmware Update**.
3. Select **Slot1**, **Slot2**, or **Slot3**.



4. Select **Browse** to locate the new firmware file on your USB flash drive, then select it.
5. Select **Update**. The firmware may take several minutes to load. The slot indicator on the front panel blinks red and green while the update is in process, and a message is displayed when the update is complete.



6. To confirm that the update was successful, select the information icon from the Home screen, then scroll to the information section for the slot to verify the module firmware version.

Slot 1	Manufacturer	TEKTRONIX
	Model Number	MPSU50-2ST
	Serial Number	XXXXXXXX
	Firmware Version	3.0.0

Installation instructions (remote)

To update the firmware using TSP Toolkit or another method, see the *MP5103 Mainframe Reference Manual*, available from tek.com.