

This manual contains instructions on how to update the GS820 firmware.
Be sure to follow these instructions when updating the firmware.

CAUTION

- Do not turn the power OFF after you select FirmwareUpdate by step 5 in “Updating the Firmware” until the system is completely written. If you do, the GS820 may malfunction.
- If the system firmware is updated, all of the data files stored on the GS820RAM (volatile storage) will be cleared. Be sure to move important data files to a different directory in advance.

Before Updating the Firmware

Uncompress the file.

Uncompress the file that you downloaded. The file contains the following three files.

- System file: b8502xeXXXXXX.srec (for 765601 and 765602)
 b8502xlXXXXXX.srec (for 765611 and 765612)
- This manual: IM765601-91E_030.pdf

Change the GS820 USB interface mode to USB storage.

1. Press **SHIFT+SETUP (MISC)** to display the MISC menu.

Remote I/F	External I/O	LineFreq Auto	Display 4	CSV Setting	Next 1/2
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2. Press the **Remote I/F** soft key to display the Remote I/F menu.

GPIB 1	RS232	LAN	USB Storage	VISA Info
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3. Press the **USB** soft key to display the USB menu.

			USB Mode Storage USB-TMC	
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4. Press the **Storage** soft key.

Updating the Firmware

- Using a USB cable, connect the GS820 to the PC that contains the uncompressed system file.
- Copy the system file to the GS820RAM (volatile storage) according to the model. For details on the GS820RAM (volatile storage), see section 4.6 in the GS820 User's Manual (IM765601-01E).
 - 765601 and 765602: b8502xeXXXXXX.srec
 - 765611 and 765612: b8502xlXXXXXX.srec

- Press **SHIFT+SETUP (MISC)** to display the MISC menu.

Remote I/F	External I/O	LineFreq 50Hz	Display 4	CSV Setting	Next 1/2
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- Press the **Next 1/2** soft key.

Beep On Off	Time Adjust	Test	Disk Format	Firmware Update	Next 2/2
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- Press the **FirmwareUpdate** soft key.

The system file automatically opens and the update operation is carried out.

An error will occur if there is no system file in the GS820RAM.

- When the update operation is completed, a message prompting you to powercycle the GS820 appears. If the message is displayed, cycle the GS820 power.

Checking the Updated Firmware (After restarting the GS820)

- Press **SHIFT+ERROR (INFO)**.

Instrument : GS820 MULTI CHANNEL SMU	Product name
SerialNo : 12345678	Serial number
Firmware Revision : 1.01 2007/07/12 16:33:59	Most recent firmware revision and update date/time
Logic Revision : 1	Most recent logic revision
Model : 765601	Model
Calibration Date : 2007/07/30 09:08:50 All Cal	Calibration date

- Check that the Firmware Revision value is the same as the firmware version that you installed.
- To set the USB interface back to USB-TMC, carry out steps 1 to 3 in "Before Updating the Firmware" and press the USB-TMC soft key.