PSR1212 Firmware Upgrade Procedure

Version 1.0.3 to Version 2.0.0

There is no need to upgrade your PSR1212 Version 1.0.3 unit(s) unless you meet one of the following requirements:

1. You plan to connect a XAP 800 unit to your PSR1212 unit.
2. You want to connect and configure Gentner Control Panels to your system.
3. You must use G-Ware Version 3.0.0.

Please note: This is a firmware version 1.0.3 upgrade only. If you have an earlier PSR1212 firmware version, please see Gentner Technical Document PSR1212_03.

Required Materials:

- Gentner G-Ware, **Version 3.0.0**.
- Serial cable, 9-pin, pin-to-pin
- New bootcode s-record file (bootcode.s19, 40KB, 04/23/01)
- PSR1212 unit(s) to be upgraded

DO NOT CONTINUE THE UPGRADE PROCESS UNLESS YOU HAVE ALL REQUIRED MATERIALS.

Upgrade Notes:

- Allow approximately 10 minutes per PSR1212 upgrade.
- Upgrades must be performed via a direct connection to the serial port of each unit in a linked system. Upload of firmware cannot be performed over the Expansion Bus.
- Custom programmed settings in the PSR1212 unit will not be altered or lost.
- G-Ware version 1.0.0 site files saved to your computer are not compatible and will not load correctly into G-Ware version 3.0.0.

Upgrade Procedure: Read and understand the upgrade process **before** beginning.

Follow each step precisely. Gentner Communications will not be responsible for units damaged during the upgrade process. If you have questions about this procedure, call Gentner Technical Support at (800) 283-5936 or (801) 975-7200 before beginning the upgrade.

1. Uninstall G-Ware version 1.0.0 and install G-Ware version 3.0.0.

2. Copy the new bootcode s-record file that you received to your C:\G-Ware\Firmware folder. This location may vary if you installed G-Ware to a custom location. You can download the bootcode file from Gentner's web site www.gentner.com/t4tpsr.html.

3. Connect the serial cable from your PC to the RS-232 port of the PSR1212.

4. Shut down all applications! Do not run any applications during the upgrade process.

5. Find the upgrade utility application file called **GFirm.exe** in the G-Ware directory. Double-click this file to begin upgrading your PSR1212 unit.

6. Click **Browse** to locate and select the bootcode s-record file (bootcode.s19).

WARNING: *The bootcode file is not included in the G-Ware application nor on the CD distributing G-Ware. It can be downloaded with these instructions from Gentner's web site or provided by Gentner Technical Support. If you do not have this bootcode file, do not continue the upgrade or you will damage the PSR1212.*

7. Click **Next**. This will open the Communications window. Select the PC COM port and the baud rate that matches the baud rate of the RS-232 port on the PSR1212. Select the box next to **Allow Sector 0 to be erased (Warning – Boot Sector)**. It is not necessary to enter information into the Special - Select from Document option.

NOTE: **If the above message does not appear, you do not have the proper bootcode file. DO NOT CONTINUE. IF YOU DO, YOU WILL DAMAGE THE UNIT.** *Gentner will not be responsible for units damaged during the upgrade process.*

8. Click **Next** to open the Progress window. Uploading the new bootcode file will begin immediately. This will take approximately 1 minute. DO NOT CLICK CANCEL. If the upload fails, verify that you have the correct COM port and baud rate selected and that you are using the specified type of serial cable. If so, power cycle the PSR1212 and repeat the upload by clicking **Start Over** or return to step 3. If you have to power cycle the PSR1212, the PSR1212 front panel +12 LED and all mic LEDs might flash simultaneously during the upload. This is a normal indication.

9. When uploading is complete, the Finished window will open displaying the message, "You are finished" and "Upload was successful." Do not close the session.

10. Power cycle the PSR1212.

WARNING: **Failure to power cycle the unit will render it inoperable and will require the unit to be sent back to the factory for repair.**

11. After the unit is powered up, click **Start Over**.

12. Click **Browse** to locate and select the firmware s-record file **psr1212os.s19**. This file is located in the G-Ware\Firmware folder. Check to make sure the file size is 992KB.

13. Click **Next**. This will open the Communications window. Select the PC COM port and the baud rate that matches the baud rate of the RS-232 port on the PSR1212. It is not necessary to enter information into the Special - Select from Document option.

14. Click **Next** to open the Progress window. The new firmware upload will begin immediately. This will take approximately 5 minutes. DO NOT CLICK **CANCEL**. If the upload fails, verify that you have the correct COM port and baud rate selected and that you are using the specified type of serial cable. If so, power cycle the PSR 1212 and repeat the upload by selecting **Start Over** button. If you have to power cycle the PSR1212, the PSR1212 front panel +12 LED and all mic LED's might flash simultaneously during the upload. This is a normal indication.

15. When uploading is complete, the Finished window will open displaying the message, "You are finished" and "Upload was successful."

16. Power cycle the PSR1212.

17. If you have more than one unit to upgrade, move the serial cable to the next unit, click **Start Over** and return to step 6. Otherwise click **Cancel** to close GFirm. You are finished.

18. You can verify your new version in the system menu of the front panel or via the Unit Properties window when connected to G-Ware.

If you have any questions contact Gentner Technical Support at (800) 283-5936 or (801) 975-7200.