

13.3 Firmware Upgrade using USB

If necessary, your controller can have the firmware upgraded. Firmware is a set of instructions which tell the controller CPU how to operate. Firmware is not your 'program configuration' which determines which relay operates when and how. The program configuration can be saved and if needed, re-loaded, or copied to another controller. See section, [13.2 Save or Load the Program Configuration](#)



1 File Please

To avoid accidents and confusion with this important process, please remove all files from the USB drive prior to adding the .hex file. The controller will only allow you to view one file. Be sure you copy the correct file to the USB. If you have more than one, you may load the wrong file.

- 1- Obtain the hex file from ProMinent and insert thumb drive with the new file into the USB port located behind the Communication panel. See section [13.1 Capturing Data](#) above to find the port.
- 2- Press **F2**, UPDATE NOTE: If you do not have HMI files on your USB drive, when you press F2 you will skip ahead to step 4 below
- 3- The display explains the choice of pressing **F1 UPDATE** to continue this process, or to press **F2 SITE** to load HMI firmware. Choose **F1 UPDATE**.
- 4- The display now shows the one file from the USB drive; AP17091200.hex and the current hex file in use; Running : 17.08.28.00. Note: These numbers are date codes, year, month and day. '00' Indicates that this is a USB type file.

USB drive active Offline, All STOP		
LOG	UPDATE	CONFIG
F1	F2	F3

USB drive active		
UPDATE firmware		
SITE updates HMI		
UPDATE	SITE	BACK

Your dates will differ from this example!

If the file on line 2 is the new firmware file, press **F1 NEWPGM** to select the new hex file.

Program file		
AP17091200.hex		
Running 17.08.28.00		
NEWPGM	OLDPGM	BACK

- 5- Press **F1 Load** to install the new hex file.

Program file		
AP17091200.hex		
Running 17.08.28.00		
LOAD	NEXT	BACK

- 6- The firmware is copied to the controller. When complete Aegis will notify you to remove the USB drive.

Copying.... Program file AP16101300.hex 0.02% Complete

Copying.... OK. Ready to program Remove USB drive 100.00% Complete

- 7- After you remove the drive, the controller will erase the existing firmware and install the new one.

Erasing Program memory

Loading AP16101300.hex Record# 0

- 8- Once the new firmware is installed, the controller will restart.

Hardware startup Now.....
