AAON Touchscreen Control - Firmware Update Methods

Firmware updates to the Touchscreen and RTU Controller may be performed by one of two methods:

Method 1 – Firmware Dongle Auto program kit (dongle and harness)

A pre-loaded firmware specific update tool (similar to a flash drive) can be ordered from AAON and used to update multiple Touchscreen controllers to contain the latest firmware.

*Contact AAON Technical Support techsupport@aaon.com to obtain the AAON part number for the dongle containing the latest firmware update.

To perform the update using Method 1 follow these steps:

1. Plug the firmware dongle into the PGM1 located on the RTU controller. Wait for the blinking green LED located on the dongle tool to turn solid green to ensure the software has been loaded.
2. Plug the dongle to the PGM2 port located on the unit control board and repeat the process above until once again the blinking green LED has turned solid green.
3. Unplug the TSTAT display screen from the subbase. At the unit control board, unplug the 5 wire TB2 green connector.
4. Using the communication harness provided with your Firmware dongle kit, plug the black 5 pin female connector of the harness into the 5 pin mail connector located on the back of the TSTAT. Plug the other harness connector (white 6 pin male connector) into the white J11 TSTAT connector located on the unit control board.
5. Plug the firmware dongle into the blue PGM port located on the back of the TSTAT display. Wait for the green blinking LED located on the firmware dongle to turn solid green to ensure the update is complete.
6. Disconnect the update kit harness and reconnect the original black 5 pin connector and green connector back to the green TB2 connection on the RTU controller. (step 3 and 4 above)
7. Plug the TSTAT display back into the subbase. Login to the Touchscreen controller using password 2425. Tab through the TSTAT Menu to the System 2 screen. Confirm the new firmware version is correctly loaded by verifying the version displayed on all three lines (TSTAT, RTU and COM Version) indicates the latest firmware version.

Method 2 – SD Card Flash Memory (1GB card)

In addition to using Method 1 above, Touchscreen controllers shipped beginning **April 2017** contain an active Micro SD memory slot located on the right side of the TSTAT display. Note: Some units shipped prior to April 2017 may have an SD slot, but the slot is not operational. **(For program compatibility, the SD card first be formatted with file System using FAT32 as default.)**

1. Go to www.aaon.com/controls and click on the ***AAON Touchscreen Controller SD Card Software Update*** link. Save the firmware file to your computer and then copy to a Micro SD card to be transported to the jobsite.
2. Insert the Micro SD Card into the Touchscreen SD slot located on the right side of the TSTAT/Display panel.
3. Login to the controller using the Administrator password 2425.
4. To begin the Firmware update process, press the following menu buttons: **Setup, Next, SD Card and Update Firmware.**
5. Once the red **Update Firmware** screen disappears and the controller will restart and return back to the Menu screen. The unit will operate in Vent mode for approximately 1 minute and then return to normal operation. To confirm the firmware updated correctly, tab through the Menu screens to System 2 screen and confirm that all three line items reflect the latest firmware version. *The prior unit control Configuration and Setpoints shall carry over with the new update file.