

## Thermo-Flow System Map Upgrade Instructions.

On the Thermo-Flow (TOF) System to be updated, perform the following steps in the order presented:

1. Install Token number “1” into the corresponding side token socket of the TOF ADM display Module.
2. Cycle Power.
3. Wait to the display to start the splash screen, and complete the progress bar indicating that it has updated the software in all the system electronic modules. Press the bottom right soft key, and the system will re-boot and start the application. Remove the programming token from the ADM module.
4. Insert Token number “2” into the token socket of the Communication Gateway module (CGM).
5. On the CGM module, press and hold the outer-most, recessed, Red momentary switch above the programming socket for more than 5 seconds continuously. After the press and hold sequence, the CGM Red LED should start blinking, indicating that a new data map is being loaded into the module.
6. On the ADM module, navigate to the Advanced #2 setup screen, and verify that the following software revisions are displayed on the corresponding screen:

ADM Module:                      Version 1.03.030

GCM (Gateway):                  Version 3.01.004

7. On the ADM Module, navigate to the gateway setup screen #2, and verify the following information is displayed in the corresponding field(s)

Map Name:                        TOF\_TNDM

Map Version:                    1.03

8. Use the supplied Rockwell/ Allen-Bradley PLC software (filename: TOF\_Tndm.ACD) to communicate and control the TOF system. Follow the map instructions in the “TOF\_CGM Kit Manual.pdf” manual supplied with the kit. The sample PLC program has all the data tags and copy instructions to exchange the data from the TOF CGM module to the PLC logic tags. The sample .ACD program also contains ladder rung logic to monitor and create the necessary signals for the bi-direction Heart Beat feature.