USER CONFIGURATION

Your new 09 series GPI flow computer has been programmed with many additional features, most of which can be enabled or disabled by the end user by way of a configuration process. By disabling unnecessary features, day-to-day flowmeter operation can be greatly simplified, making the unit easier to use.

Alternately, there are several features that GPI disables by default when shipping standard meters (for example, batch-2, the 2nd batch totalizer). For more advanced users, it may be desirable to enable ALL possible features.

User configurable features include:

1. Totalizers Enabled (Cumulative Total, Batch 1 Total, Batch 2)

2. Flowrate Modes Enabled (units per Minute, Hour, Day; fast update mode)

3. Totalizer restoration after power-off (batch 1, batch 2 – note – cumulative total, if enabled, is always restored after power-off, but see next item)

4. Cumulative total may be cleared (yes, no)

5. Serial data output is enabled (yes, no)

6. Input frequency filter is enabled (yes, no)

7. Field calibration (not enabled, or enabled + method)

8. Any of all of the following units-of-measure may be enabled:

    A. U.S. gallons
    B. Imperial (British) gallons
    C. Quarts
    D. Liters
    E. Cubic Feet (CF)
    F. Cubic Meters (CM)
    G. Barrels (42g)
    H. Cubic Centimeters (CC)
    I. Ounces

Models That Allow End User Configuration:

- G2 Local Registry Displays
  - Example: G2S10N09NB1
- G2 Remote Transmitters
  - Example: G2S10N31GMC
  - Example: G2X10X32GMC
  - Example: G2X07X40GMC
  - Example: G2X10X41GMC
  - Example: G2X10X42GMC
- Remote GM Transmitters (GX500)
  - Example GX500-1
- Local Registry GM Displays (GG500)
  - Example GG500-1
- A1 series
  - A109GMA100NA1

Models That Do Not Allow End User Configuration

- FM300 series
- 01 series
- 03 series

Changing Configuration Settings

Access to the configuration process is non-obvious for security reasons, and is inhibited until a P.I.N. (Personal ID Number) is entered.

Configurations are entered and stored as six-digit codes where each digit represents settings for several of the configuration options. New configuration settings are stored in the computer's long-term memory and will not be lost either in the OFF mode or during battery change.

GPI recommends that you determine ahead of time what your new six-digit configuration code will be. Using the “new 09” Series Configuration Code Calculator on this website, create the new code and then write it down so you may refer to it during configuration.

To change configuration settings, follow these instructions exactly! The process will require you to temporarily disconnect power. (For most GPI meters this means temporarily disconnecting the battery.)

a. Temporarily disconnect power to the flow computer (On units with two batteries, only one needs to be disconnected. On remote units or others that are externally powered, temporarily disconnect power at any convenient point).

b. Allow at least 30 seconds before proceeding to allow all internal capacitance to discharge.

c. While the unit is still unpowered, press and hold the CALIBRATE button. While holding the CALIBRATE button, re-apply power. As long as you hold the button, the display will show “FldCfg”. You may release the button at any time.

d. If you have done this correctly, the display should immediately change to 000000 with the left-hand digit blinking. If you do not see this, go back to step (a) and try again.

e. The computer is waiting for you to enter a valid P.I.N. (Personal ID Number). The P.I.N. for all current 09 computers is 020748. To enter the number, use the CALIBRATE button to change the blinking digit and/or use the DISPLAY button to shift the blink to the next digit. NOTE: YOU CAN USE THE BUTTONS AS OFTEN AS NECESSARY. As an added security precaution, if no button activity is sensed for about an hour, the computer will revert to normal operation, and you will have to repeat the process from step (a).

f. When the correct P.I.N. (020748) is displayed, briefly press and release BOTH buttons. If you have entered the P.I.N. correctly, the computer will again show “FldCfg” until you release the buttons, It will then immediately enter its field configuration mode, with the display showing the current six-digit configuration code (for example, 922948). Again, if no button activity is sensed for about an hour, the computer will automatically revert to normal operation, with no configuration changes! If this happens, and you have not completed the process, you will have to repeat the entire process from step (a).

g. Using the same methods as you used in step (e) above, enter the six-digit code number for your new configuration.

h. When the desired six-digit code appears, briefly press and release BOTH buttons. The display will briefly show CFGEnd, and then the unit will return to normal operation. Configuration is complete.

Your new settings are stored in the computers long-term memory and will NOT be lost either in sleep mode or during battery change. However, if you are not satisfied with the new settings, you can repeat the configuration process and change any setting as often as desired (Often only a single digit of the six-digit code will need to be changed.).