

# J Plus Advanced Quick-Start Guide

This guide will lead you through the menus used to display and set system parameters.

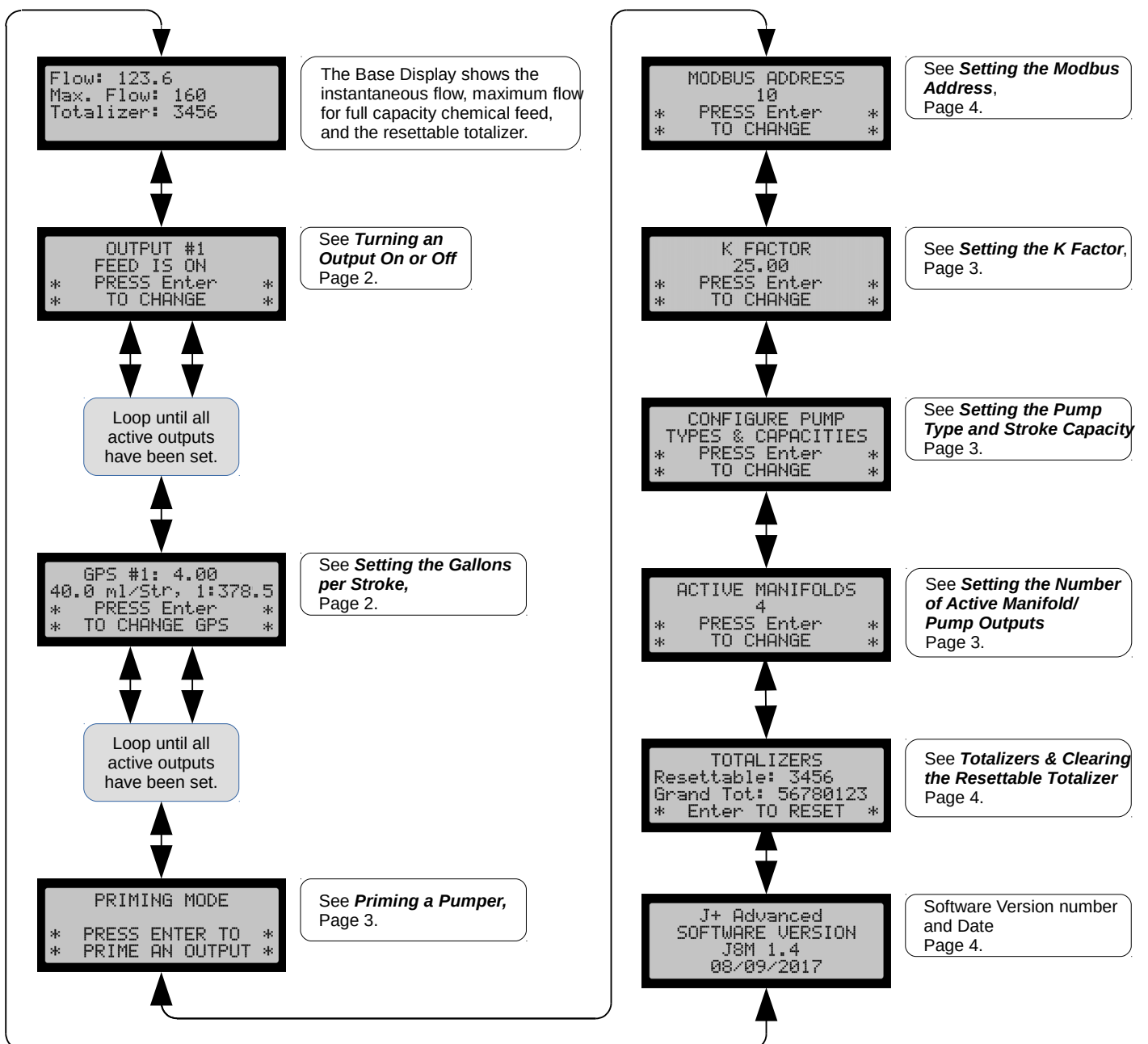
If you have ordered your J+ Advanced controller as part of a system which includes a water meter, one or more manifolds, or solenoid pumps, some of the parameters may already be properly set.

You can use the **▼** and **▲** keys to navigate the top level menus in normal or reverse order. After a 10 second period with no key press the display will return to the base display. During this period you can move forward or reverse through the menu sequence. Pressing the **Cancel/Exit** key will return to the base display immediately.

Any top level menu item with 'Q' characters at the margins allows operator to press **Enter** to enter or change a value or perform the currently displayed function. Pressing **Cancel/Exit** will exit the screen will return to the base display.

All numeric entries are right justified as they are entered. Decimal places are fixed, and when entering values with decimal positions, trailing zeros must be entered.

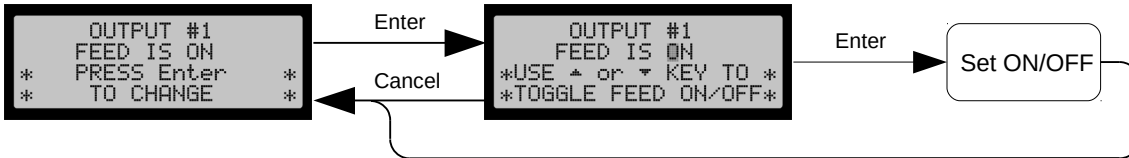
## Base (default) display and top level menu rotation



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## Setting the Parameters Accessed Most Often in Normal Operation

### Turning an Output On or Off

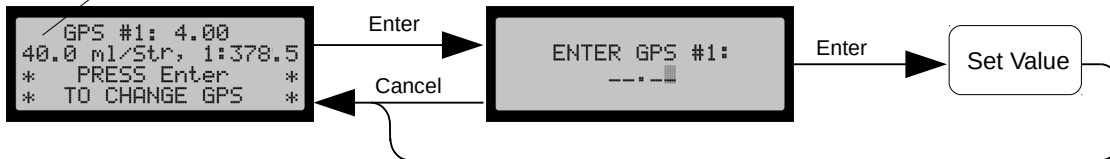


From the Base Display press ▼ once to reach this screen, and again until you reach the output that you want to change. If you are using fewer than eight outputs setting number of active manifolds used will speed navigation through the ON/OFF and GPS (Gallons Per Stroke) menu screens.

### Setting The Gallons per Stroke

If the manifold capacity has been entered the stroke capacity and feed ratio at the current setting will be displayed. Otherwise the line will show "Capacity Not Defined"

Enter the GPS (Gallons Per Stroke) value. Both decimal places must be entered, even if zero.



From the Base Display press ▼ repeatedly until you have advanced through the ON/OFF settings and reached the GPS setting for the output you wish to set. The GPS (Gallons per Stroke) determines how frequently the manifold makes a pumping stroke. This along with the CPS (Capacity per Stroke) of chemical pumped determine the feed ratio of the manifold or solenoid pump controlled by the output.

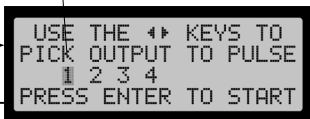
### Priming a Pumper (Pumphead) or Solenoid Pump

#### Priming Screen



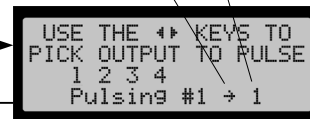
#### Selection Screen

Only active outputs are displayed



#### Pulsing Screen

Pulse Indicator Pulse Count



Priming sends a sequence of six (6) pulses to the selected manifold. If you have more than one pumper on a manifold and you do not want to prime them all, you will need to turn off some pumpers with the shut-off valves located on the manifold. **Cancel/Exit** will abort the priming sequence after the current stroke. There is a thirty second period before the controller returns to the base display. During that period you may press **Enter** to repeat the sequence or you can press **Cancel/Exit** to return to the selection screen and select another output.

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## Setting the Initial Configuration of Your System

If your control came as part of a complete system these parameters are usually preset at the factory. If that is the case you should examine all these settings to insure they are correct.

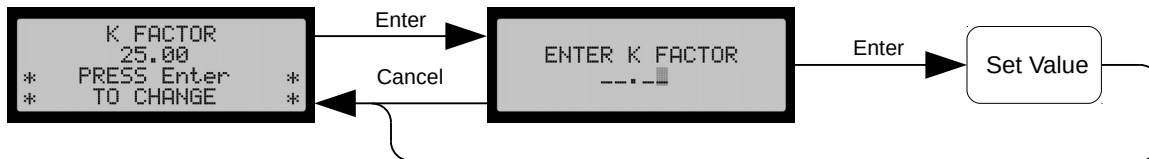
### Setting the Number of Active Manifold/Pump Outputs



From the Base Display press ▲ three times to reach this screen. If you are using fewer than eight outputs setting this value to the maximum number used will speed navigation through the ON/OFF and GPS (Gallons Per Stroke) menu screens.

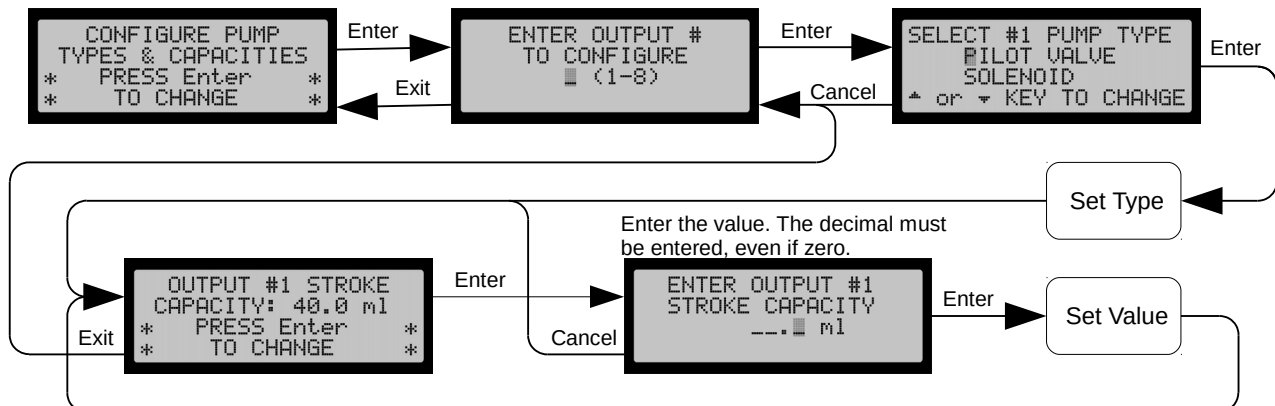
### Setting the K Factor

Enter the K Factor (Pulses per Gallon) value. Both decimal places must be entered, even if zero.



From the Base Display press ▲ five times to reach this screen. **The K Factor value is critical to accurate operation of the system.** The K Factor is usually shown somewhere on the water meter. Enter the K Factor (Pulses Per Gallon) value. Both decimal places must be entered, even if zero.

### Setting the Pump Type and Stroke Capacity for Each Output



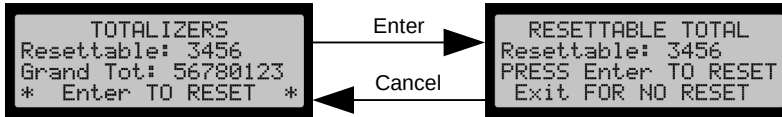
To configure a manifold is a two step process. You must first set the pump type and then enter the chemical capacity per stroke. Each output must be selected and configured individually. From the Base Display press ▲ four times to reach the initial screen screen.

- 1) Press **Enter** to choose the output number to configure.
- 2) Follow the screen instructions to set the pump type and Press **Enter** to set and display the Capacity per Stroke (STROKE CAPACITY).
- 3) Press **Enter** again to set the stroke capacity using the numeric keypad. You must enter the decimal place.
- 4) After setting the value you will be returned to the Output selection screen where you can configure another output or you may **Exit** to the top level menu.

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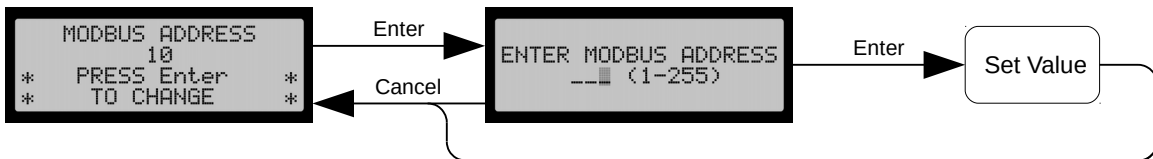
## Other Settings and Displays

### Totalizers & Clearing the Resettable Totalizer



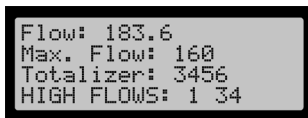
This display shows the total water flow since reset and the cumulative total flow (since factory reset). Clearing the resettable total is not reversible.

### Setting the Modbus Address



This setting is used only when remotely communicating with the controller over a Modbus link (RTU mode). Otherwise it can be ignored.

### Excessive Flow Indication



Line 4 of the Base Display is used to display "High Flows". It is only shown when the flow exceeds the Max. Flow shown in line 2. The Max. Flow is the computed flow at which the fastest (lowest GPS value) stroking manifold or Solenoid pump reaches its maximum stroking rate. Each output has its own maximum flow, determined by its GPS setting. The lowest of these values is displayed on line 2. The output number of each output which exceeds its computed maximum is displayed on line 4. In the display above outputs 1, 3, & 4 are affected. These outputs are being limited to their maximum stroking rate and therefore are pumping less than their expected (set) feed rate.

The totalizer displayed is the resettable total.

### The Version Display



This display shows the product name, software version number, and software release date. *You should have this information handy when calling the factory for assistance.*