



# PERFORMANCE BULLETIN

Product     Application     Service     General    news from



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## 7000 Programming Update (Version 1.6)

Master programming and Production Programming Modes are available on the 7000. The Master Programming Mode accesses most system configuration options for the control. The Production Programming Mode accesses the piston stopping positions for each cycle. Whenever doing a Master Reset, the microprocessor will automatically reset the circuit board to factory defaults and therefore we suggest verifying the programming values in each mode with the chart below. These values should be checked when converting the valve from a softener to filter or vice versa. Symptoms of a mis-programmed valve may be leak to drain, no brine draw, no refill, loss of flow, etc.

The 7000 will flash the software version of the microprocessor on the display when powered up. The current circuit board version is 1.6. The display will show P1.6, "CALc" and then return back to the Service Display Mode.

### Master Programming Mode Adjustments

To access the Master Programming Mode set the clock to 12:01PM and hold the UP and DOWN buttons for 5 seconds. The display will show u - - 1 when the Master Programming Mode has been entered. Press the EXTRA CYCLE BUTTON to advance through each step and change the value corresponding to the regenerant flow (valve) type selected (dF, FLtr or dFFF).

Programming Step	dF	FLtr	dFFF
Display Format	u--1	u--1	u--1
Regenerant Flow	dF	FLtr	dFFF
Regeneration Type	7--3	7--1	7--3
System Capacity	C-24	↓	C-24
Feed Water Hardness	H-15	↓	H-15
Regeneration Time	2:00	12:00	2:00
Regeneration Override	A--OFF	A--7	A--7
Cycle Step 1	1-10	1-10	1-12
Cycle Step 2	2-60	2-10	2-60
Cycle Step 3	3--5	↓	3-10
Cycle Step 4	4-10	↓	4-60
Cycle Step 5	5--12	↓	5--5
Cycle Step 6	↓	↓	6-10
Flow Meter Size	F-78 (Update to 82)	↓	F-78 (Update to 82)
Safety Factor	CF-0	↓	CF-0
Line Frequency	<b>LF60 (Read Below)</b>	<b>LF60 (Read Below)</b>	<b>LF60 (Read Below)</b>

Pressing the EXTRA CYCLE BUTTON after the last position entry will cause the control to exit the Master Programming Mode. The display will show "CALc" and then return back to the Service Display Mode.

### **Production Programming Mode Adjustments**

To access the Production Programming Mode first enter the Master Programming Mode by setting the clock to 12:01PM and hold the UP and DOWN buttons for 5 seconds. Advance to the LINE FREQUENCY (LF--) setting and hold the UP and DOWN keys until the Display reads "Ed20". The control will now be in Production Programming Mode. Using the EXTRA CYCLE BUTTON, advance the control through the programming step positions. Adjust the position values according to the table below:

<b>Programming Step</b>	<b>dF</b>	<b>FLtr</b>	<b>dFFF</b>
Edge Debounce	Ed20	Ed20	Ed20
Position 1	1 140	1 90	1 98
Position 2	2 158	2 1	2 104
Position 3	3 32	3 16 (Update 3 27)	3 140
Position 4	4 52		4 158
Position 5	5 98		5 32
Position 6	6 104		6 52
Position 7			7 84 (Update to 7 68)

Pressing the EXTRA CYCLE BUTTON after the last programming step will cause the control to exit the Production Programming Mode and re-home the valve to the new positions. The display will Show " - - - - " until the valve finds its new service position at which time the motor will stop and the time of day will be displayed.

### **Master Reset or Regenerant Flow (Valve) Type Adjustment**

Any time a Master Reset is performed or the regenerant flow (valve) type is changed the Master and Production Programming values will be reset. These values should again be verified in Master and Production Programming.

As always, thank you for using Fleck controls.

Sincerely,

Pentair Water Treatment, Inc.



Ken Mills  
Technical Sales/Support