

INSTALLATION PROGRAMMING MANUAL

**PURONICS®
WATER CONDITIONER
Model Terminator® MP
With SilverShield® HYgene®
Bacteriostatic Protection**

PURONICS®

The Next Generation of Ionics Solutions

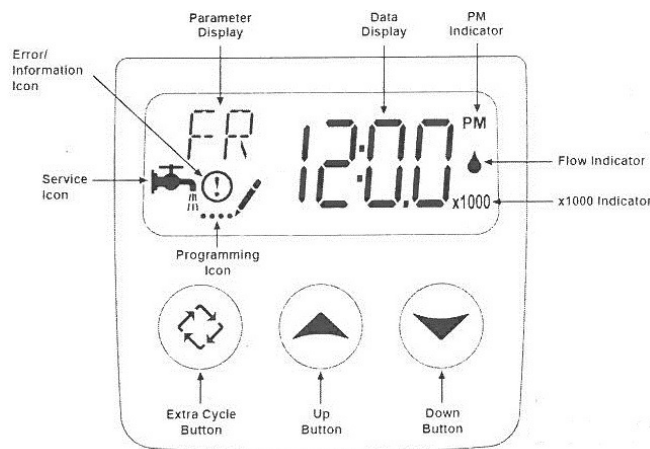
**Manufactured by:
Puronic Water Systems, Inc.
5775 Las Positas Road
Livermore, CA 94551
(800) 339-8780
www.purronics.com**

PURONICS®

Service Call

The Model MP control valve features an automatic Service Call Reminder. The valve measures water volume usage and based on the life expectancy of the SilverShield® HYgene® bacteriostatic media for the unit, will flash a screen message of CALL TECH and phone number.

Timer Features



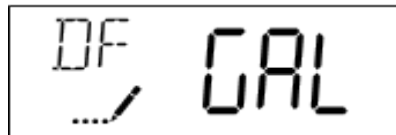
- Power backup continues to keep time and the passage of days for a minimum of 48 hours in the event of power failure. During a power outage, the control goes into power-saving mode. It does not monitor water usage during a power failure, but it does store the volume remaining at the time of power failure.
- While in service, the display alternates between time of day and volume remaining until next regeneration.
- The Flow Indicator flashes when outlet flow is detected.
- The Service Icon flashes if a regeneration cycle has been queued.
- A Regeneration can be triggered immediately by pressing the EXTRA CYCLE button for five seconds.
- The Parameter Display displays the current Cycle Step (BW, BF, RR, etc.) during regeneration, and the date display counts down the time remaining for that step. While the valve is transferring to a new cycle step, the display will flash. The parameter display will identify the destination cycle step (BW, BF, RR, etc.) and the data display will read "----". Once the valve reaches the cycle step, the display will stop flashing and the data display will change to the time remaining. During regeneration, the user can force the control to advance to the next cycle step immediately by pressing the EXTRA CYCLE button.

Step 1-Set the Service Call Number in Master Programming Mode

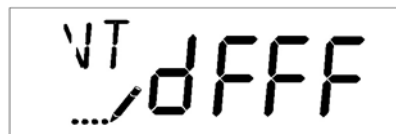
1. Press and hold either the UP or DOWN buttons until the programming icon replaces the service icon and the parameter display reads DO. Adjust the display time with the UP and DOWN buttons to 12:01PM. Press the EXTRA CYCLE Button (to exit Setting Time of Day mode). Then press and hold the UP and DOWN buttons together until the programming icon replaces the service icon and the Display Format screen appears.



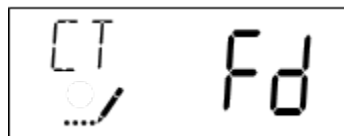
2. The first screen that appears when entering Master Programming Mode is the Display format, preset to U.S. Gallons. DO NOT CHANGE



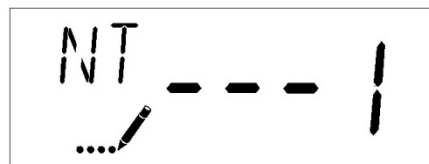
3. Press the EXTRA CYCLE Button to display the Valve Type, preset to Downflow Flow Fill First. DO NOT CHANGE



4. Press the EXTRA CYCLE button to display the Control Type, preset to Meter Delayed. DO NOT CHANGE



5. Press the EXTRA CYCLE button to display the Number of Tanks, preset to Single Tank. DO NOT CHANGE



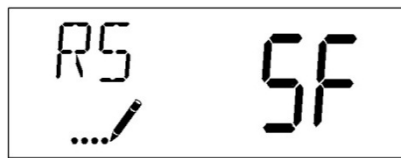
6. Press the EXTRA CYCLE button to display the Unit Capacity, preset to 20000 for an 8" tank, 30000 for a 10" tank and 40000 for a 12' tank. DO NOT CHANGE



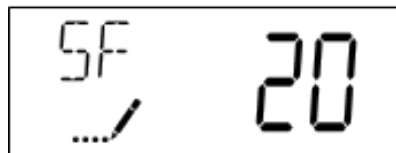
7. Press the EXTRA CYCLE button to display the Feedwater Hardness Selection, preset to 10. DO NOT CHANGE



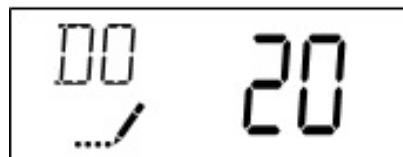
8. Press the EXTRA CYCLE button to display the Reserve Selection, preset to Safety Factor. DO NOT CHANGE



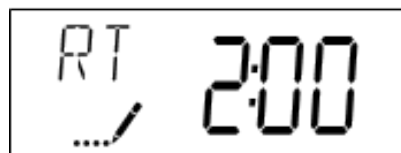
9. Press the EXTRA CYCLE button to display the Safety Factor, preset to 20%. DO NOT CHANGE



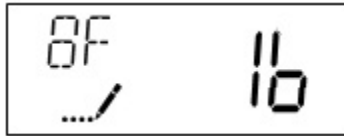
10. Press the EXTRA CYCLE button to display the Days Override, preset to 20. DO NOT CHANGE



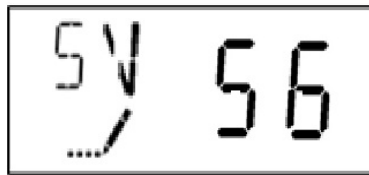
11. Press the EXTRA CYCLE button to display the Regeneration Time, preset to 2:00 AM. DO NOT CHANGE



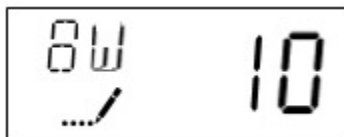
12. Press the EXTRA CYCLE button to display the Brine Fill Time, preset to 12 minutes for 8" tank, 14 minutes for 10" tank and 16 minutes for 12" tank. DO NOT CHANGE



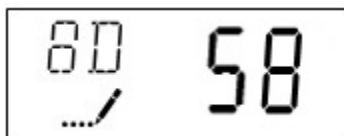
13. Press the EXTRA CYCLE button to display the Service (Brine Soak) Time, preset to 58 minutes for 8" tank, 56 minutes for 10" tank and 54 minutes for 12" tank. DO NOT CHANGE



14. Press the EXTRA CYCLE button to display the Backwash Time, preset to 10 minutes. DO NOT CHANGE



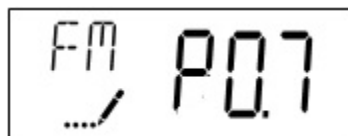
15. Press the EXTRA CYCLE button to display the Brine Draw Time, preset to 58 minutes. DO NOT CHANGE



16. Press the EXTRA CYCLE button to display the Rapid Rinse Time, preset to 12 minutes. DO NOT CHANGE



17. Press the EXTRA CYCLE button to display the Flow Meter Type, preset to 3/4" Paddle Wheel Meter. DO NOT CHANGE



18. Press the EXTRA CYCLE button to display the Service Call Area Code, preset to

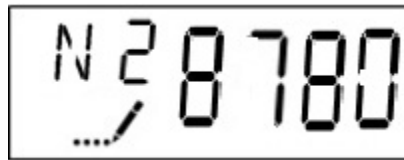
800. Press the UP and DOWN arrows to enter new Area Code.



19. Press the EXTRA CYCLE button to display the Service Call Prefix, preset to 339. Press the UP and DOWN arrows to enter new Prefix.



20. Press the EXTRA CYCLE button to display the Service Call Suffix, preset to 8780. Press the UP and DOWN arrows to enter new Suffix.

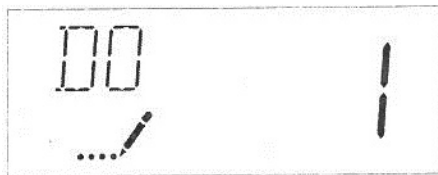


21. Press the EXTRA CYCLE button to save all settings and exit Master Programming Mode.

Step 2 – Set the Hardness In User Programming Mode

User Programming Mode Options		
Abbreviation	Parameter	Description
DO	Day Override	The timer's day override setting
RT	Regeneration Time	The time of day that the system will regenerate (meter delayed, timeclock, and day-of-week systems)
H	Feed Water Hardness	The hardness of the inlet water - used to calculate system capacity for metered systems
RC or SF	Reserve Capacity	The fixed reserve capacity
CD	Current Day	The current day of week

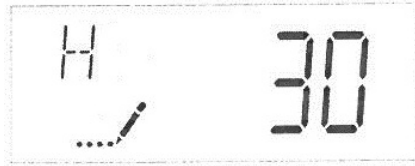
1. Press the UP and DOWN buttons for five seconds while in service and the time of day is NOT set to 12:01PM.
2. Use this display to adjust the Day Override. This option setting is identified by "DO" in the upper left hand corner of the screen.



3. Press the EXTRA CYCLE button. Use this display to adjust the Regeneration Time. This option setting is identified by "RT" in the upper left hand corner of the screen.

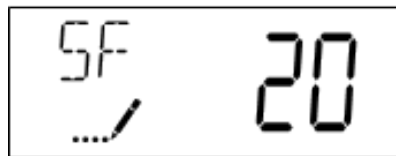


4. Press the EXTRA CYCLE button. Use this display to adjust the Feed Water Hardness. This option setting is identified by "H" in the upper left hand corner of the screen.



Range 1-199 hardness

5. Press the EXTRA CYCLE button. Use this display to adjust the Safety Factor. This option is identified by "SF" in the upper left hand corner of the screen.



6. Press the EXTRA CYCLE button to end User Programming Mode.

Step 3 – Set Time of Day

If you should have a power failure or want to adjust for Daylight Saving Time, follow these Instructions.

Press and hold either the UP or DOWN buttons until the programming icon replaces the service icon and the parameter display reads DO.

Adjust the display time with the UP and DOWN buttons.

When the desired time is set, press the EXTRA CYCLE button to resume normal operation. The unit will also return to normal operation after 5 seconds if no buttons are pressed.



During a power outage, the control goes into a power saving mode. It does not monitor water usage during a power outage, but it does store the volume remaining at the time of power failure. It will continue to keep time and the passage of days for a minimum of 48 hours in the event of power failure. The Time of Day flashes when there has been a power failure. Press any button to stop the time of Day from flashing.

If power fails while the unit is in regeneration, the control will save the current valve position before it shuts down. When power is restored, the control will resume the regeneration cycle from the point where power failed.

Step 4 – Set to Regenerate Today

To initiate a manual regeneration at the preset delayed regeneration time, press the EXTRA CYCLE button. The service icon will flash to indicate that a regeneration is queued. If you pressed the EXTRA CYCLE button in error, pressing the button again will cancel the request

To Initiate a manual regeneration immediately, press and hold the EXTRA CYCLE button for five seconds. The system will begin to regenerate immediately.

Note: If the brine tanks does not contain salt, fill with salt before initiating a manual regeneration

How to Demonstrate the Service Call Screen

1. Enter Diagnostics Mode by pressing the UP and EXTRA CYCLE buttons simultaneously.



2. Press the DOWN button once or the UP button seven times to reach Call Flow Remaining.



3. Press and hold the EXTRA CYCLE button for 5 seconds and the Service Call Screens will be activated.



4. This same method can be used to deactivate the Service Call Screens without resetting the Call Flow Remaining if it was activated this way.

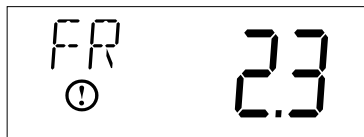
How to Turn Off Service Call Alert and Reset Total Flow and Call Flow Remaining

Turn off the Service Call Alert and to reset the Call Flow to full volume, enter and complete Master Programming Mode. No values need to be changed, but it must be exited normally by completing all parameters

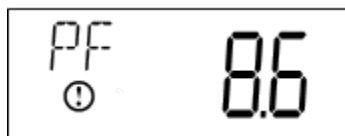
DIAGNOSTIC PROGRAMMING MODE

Diagnostic Programming Mode Options		
Abbreviation	Parameter	Description
FR	Flow Rate	Displays the current outlet flow rate
PF	Peak Flow Rate	Displays the highest flow rate measured since the last regeneration
HR	Hours in Service	Displays the total hours that the unit has been in service
VU	Volume Used	Displays the total volume of water treated by the unit
RC	Reserve Capacity	Displays the system's reserve capacity calculated from the system capacity, feedwater hardness, and safety factor
SV	Software Version	Displays the software version installed on the controller
TF	Total Flow	Displays the total volume of water treated since reset.
CF	Call Flow Remaining	Displays the remaining volume of water until next Service Call

1. Press the UP and EXTRA CYCLE buttons for five seconds while in service. The timer will exit Diagnostic Mode after 60 seconds if no buttons are pressed. Press the EXTRA CYCLE button to exit Diagnostic Mode at any time.
2. Use this display to view the current Flow Rate.



3. Press the UP button. Use this display to view the Peak Flow Rate since the last regeneration cycle.



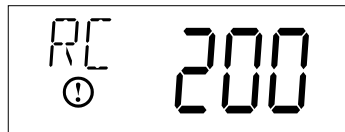
4. Press the UP button. Use this display to view the Hours in Service since the last regeneration cycle.



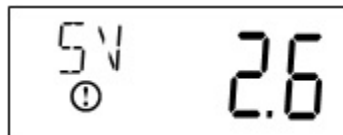
5. Press the UP button. Use this display to view the Volume Used since the last regeneration.



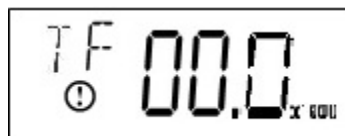
6. Press the UP button. Use this display to view the Reserve Capacity.



7. Press the UP button. Use this display to view the Software Version.



8. Press the UP button. Use this display to view the Total Flow.



9. Press the UP button. Use this display to view the Call Flow Remaining.

