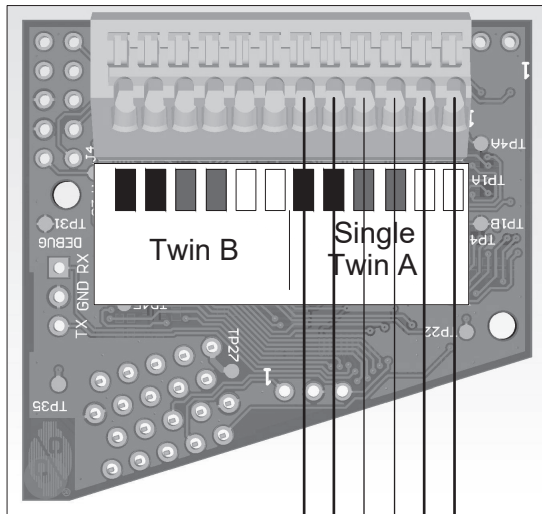


Resin Sensor Setup

For proper resin sensor operation, ensure the V4459 Resin Sensor Daughter Board is securely installed onto the valve control board edge connector with the board facing in toward the valve. Then, verify the sensor probes are properly wired into the daughter

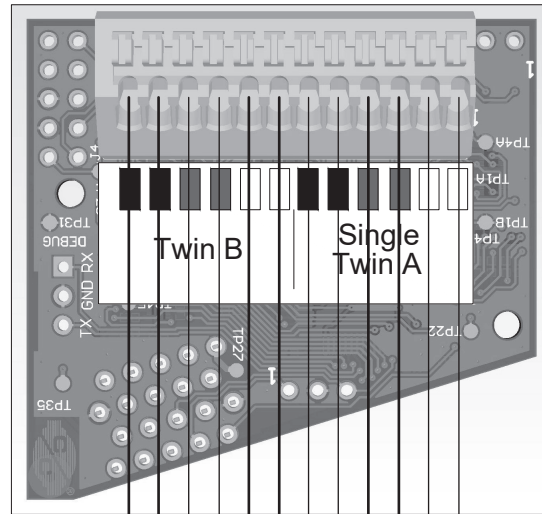
board. Finally, apply power to the valve and program the valve normally for the desired application. The resin sensor will calculate the actual volume capacity for the most efficient operation. Resin sensor specific screens are for information only.

Single Valve/Tank Wiring



Either black wire
Either red wire
Either white wire

Twin Valve Wiring



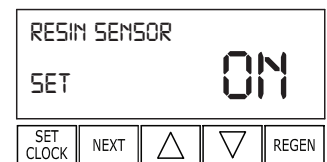
Either Tank B black wire
Either Tank B white wire
Either Tank B red wire
Either Tank A black wire
Either Tank A white wire
Either Tank A red wire

Installer Level:

The following display will appear while in the installer level of setup.

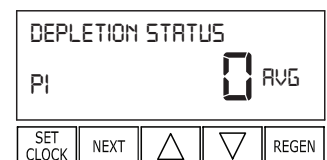
Resin Sensor Operation: Use ▲ and ▼ to set the Resin Sensor Operation to **ON** or **OFF**. Press **NEXT** to go to the next display.

User Level: When Resin Sensor Operation is set to ON, the following displays will appear among the normal user displays.



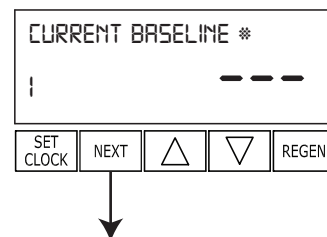
Depletion Status: Displays the degree of resin bed depletion at each probe level. The probe reading can vary depending on salt dosage, resin type, water conductivity, and temperature, but it will tend to alternate between somewhat consistent values as the system is depleted and regenerated in a given application. The display will alternate between the current probe reading and its calculated percent depletion. The percent depletion is capped at 100 percent. Use ▲ and ▼ to switch between probes. Press **NEXT** to go to the next display.

User Level continued on next page.

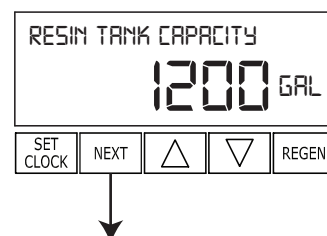


User Level (continued):

Current Baseline Probe Readings: Probe readings are taken after the initial 50 gallons of flow after each regeneration. The ratios between these initial probe readings are used to normalize future readings. After normalization is completed, the initial probe readings are viewed. Dramatic changes can indicate water or brining changes, and will likely result in changes to the calculated capacity. Use ▲ and ▼ to switch between probes. Press **NEXT** to go to the next display.



Resin Tank Capacity: Tank capacity will reflect actual tank capacity as sensor probes detect depletion. The capacity will be recalculated whenever a probe reaches 100% depletion. Press **NEXT** to go to the next display.

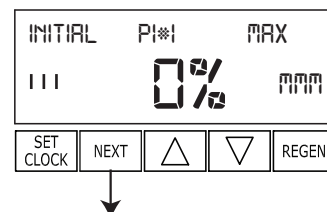


Diagnostic Level:

When Resin Sensor Operation is set to **ON**, the following displays will appear among the diagnostic displays.

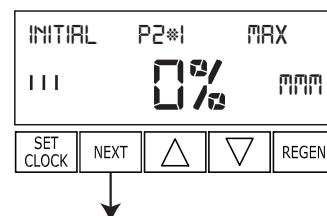
Probe 1 Measurement History: Displays the measurements recorded at Probe 1 during the previous 10 regenerations. Changes in Initial and Max readings from depletion to depletion can show changes in water hardness or brining level. The percent depletion indicates the amount of the bed used before a regeneration for single tank systems.

Use ▲ and ▼ to switch between readings; 1 is the latest reading. Press **NEXT** to go to the next display.



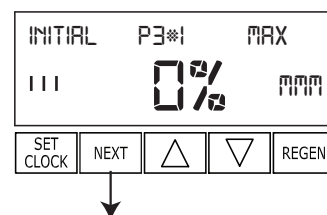
Probe 2 Measurement History: Displays the measurements recorded at Probe 2 during the previous 10 regenerations. Changes in Initial and Max readings from depletion to depletion can show changes in water hardness or brining level. The percent depletion indicates the amount of the bed used before a regeneration for single tank systems.

Use ▲ and ▼ to switch between readings; 1 is the latest reading. Press **NEXT** to go to the next display.



Probe 3 Measurement History: Displays the measurements recorded at Probe 3 during the previous 10 regenerations. Changes in Initial and Max readings from depletion to depletion can show changes in water hardness or brining level. The percent depletion indicates the amount of the bed used before a regeneration for single tank systems.

Use ▲ and ▼ to switch between readings; 1 is the latest reading. Press **NEXT** to go to the next display.



Maximum Resin Capacity History: Displays the maximum resin tank capacity determined after the previous 10 regenerations. Slight variations in capacity are normal and can be caused by variation in water hardness or brine delivered. Large changes are an indication of larger water hardness changes or a change in the amount of brine delivered. Use ▲ and ▼ to switch between capacities; 1 is from the latest regeneration. Press **NEXT** to go to the next display.

