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PENTAIR 5800 XTR2 Touch Screen Controller



Specifications

- Product: FLECK 5800 XTR2
- Technology: AccuSense™ Technology
- Valve Options:
 - PN 580008-009: Set up for 8 tanks
 - PN 580008-010: Set up for 9 or 10 tanks
 - PN 580008-011: Set up for 12 tanks
 - PN 580008-015: Setup for 9 or 10 tanks
- Tank Options:
 - Structural Polyglass Tanks
 - Various sizes available
- Sensor Probe Assembly: PN 61893

Product Usage Instructions

Sensor Probe Installation:

1. Do not install sensor probes in tank sensor ports before loading the tank with gravel and/or resin.
2. Load the sensor resin tank with distributor tube, gravel, and/or resin per your normal loading procedure.
3. The sensor probe with the longest wire must be installed in the lower tank sensor port.
4. Use a clean cloth to remove any debris from the tank bulkheads.
5. Apply silicone lubricant to each O-ring and install it in the O-ring groove on the end of each probe.
6. Align probe pins to pinholes in the tank and push each probe into the tank bulkhead.
7. Install the red probe retainer clips into the bulkhead.
8. Plug the sensor wire harness into the appropriate circuit board receptacle.
9. Connect the white end of the sensor wire harness to the white end of the sensor probe assembly.
10. Install the probe cover included with the tank.

Valve Setup:

1. Follow the setup instructions outlined in the Fleck 5800 XTR2 Service Manual as you power up the system.
2. To Choose Sensor Regeneration Type:
 - From the XTR2 main Master Settings screen, press the valve button to display the valve screen.
 - Press the regen. Type a button and scroll through the options until the AccuSense metered option is seen.
 - Press the check mark button to select.

New AccuSense Features:

New Hardness History in Diagnostic Menu: For AccuSense Metered, a new diagnostic screen displays the last four (4) hardness values and the date of hardness change.

FLECK 5800 XTR2

ENHANCED WITH ACCUSENSE™ TECHNOLOGY

INSTALLATION GUIDE

This installation guide augments the 5800 XTR2 Service Manual (PN 43359-02). The Fleck XTR2 Electronic Control now features AccuSense sensor technology capability as of software version 4.0+.

For a complete installation, the following components are required:

ONE OF THE FOLLOWING FLECK 5800 XTR2 VALVES:

- PN 580008-009.....Set up for 8" tanks
- PN 580008-010.....Set up for 9" or 10" tanks
- PN 580008-011.....Set up for 12" tanks
- PN 580008-015.....Set up for 9" or 10" tanks

ONE OF THE FOLLOWING STRUCTURAL POLY GLASS TANKS:

- PN CH34204-03010201-30.....0844 PG 2.5"T UI BLK 9100 SNSRTK COMP BASE
- PN CH34205-03010201-30.....0948 PG 2.5"T UI BLK 9100 SNSRTK COMP

BASE

- PN CH34206-03010201-30.....1054 PG 2.5" T UI BLK 9100 SNSRTK COMP
BASE
- PN CH34299-03010201-30.....1248 PG 2.5" T UI BLK 9100 SNSRTK COMP
BASE

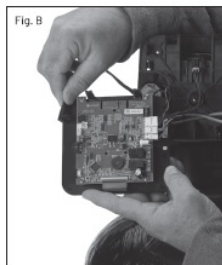
ONE PENTAIR ACCUSERS SENSOR PROBE ASSEMBLY

- PN 61893..... KIT, SENSOR PROBE ASSEMBLY

SENSOR PROBE INSTALLATION (FIG. A AND FIG. B)

1. Do not install sensor probes in tank sensor ports before loading the tank with gravel and/or resin. Sensor probes could be damaged by falling gravel and/or resin during loading. (Reference "5800 XTR2 Enhanced with AccuSense Technology Top 3 Tips for Success" for tips on application suggestions.)
2. Load sensor resin tank with distributor tube, gravel, and/or resin per your normal loading procedure. Dry loading is preferred as some water will exit the tank through the sensor ports without probes installed.
3. Please note that the sensor probe with the longest wire must be installed in the lower tank sensor port.
4. Use a clean cloth to remove any debris (resin, etc.) from the tank bulkheads (sensor tank ports, Fig. A).
5. Apply 100% silicone lubricant (included) to each O-ring and install it in the O-ring groove on the end of each probe.
NOTE: Be careful not to get silicone on the gold-plated sensor probe pins, as this could affect sensor conductivity readings.
6. The probe assemblies are keyed for easy alignment; align the probe pins to the pin holes in the tank, and push each probe into the tank bulkhead.
7. Install the red probe retainer clips into the bulkhead. Ensure that each clip is fully seated in the bulkhead.
8. Plug the E-sensor wire harness into the appropriate circuit board receptacle, Fig. B.
9. Connect the white end of the sensor wire harness to the white end of the sensor probe assembly.

10. Install the probe cover included with the tank.



BEGIN VALVE SETUP

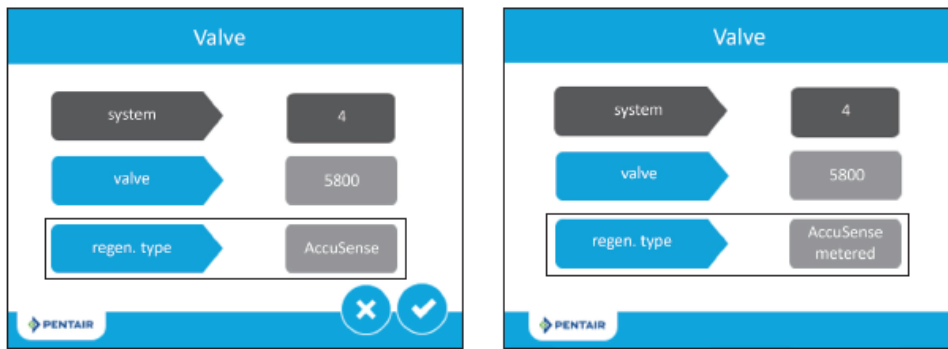
Follow the setup instructions outlined in the Fleck 5800 XTR2 Service Manual as you power up the system.

To Choose Sensor Regeneration Type

From the XTR2 main Master Settings screen, press the valve button to display the valve screen.

Press the regen. Type a button and scroll through the options until the AccuSense metered option is seen. Press the check mark button to select.

REGEN TYPE SELECTIONS



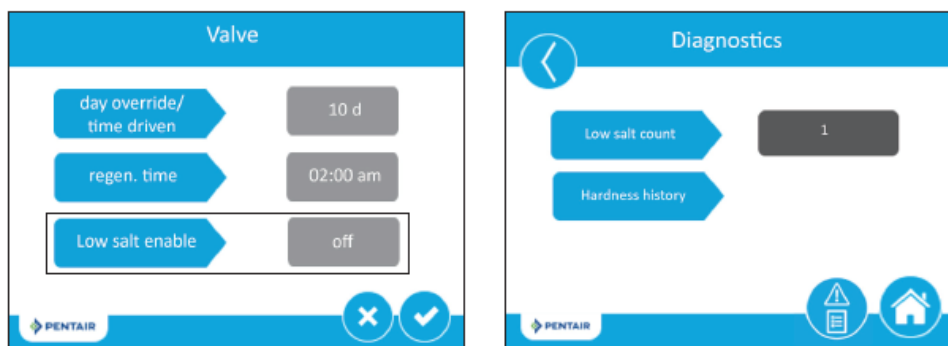
NOTE: Hardness and hardness unit settings will no longer be available when in the regen. Type: AccuSense mode.

Proceed to program valve settings as normal, including meter, when using AccuSense with meter (reference 5800 XTR2 Service Manual for additional instructions).

NEW AACCUSERSFEATURES

LOW SALT EVENT

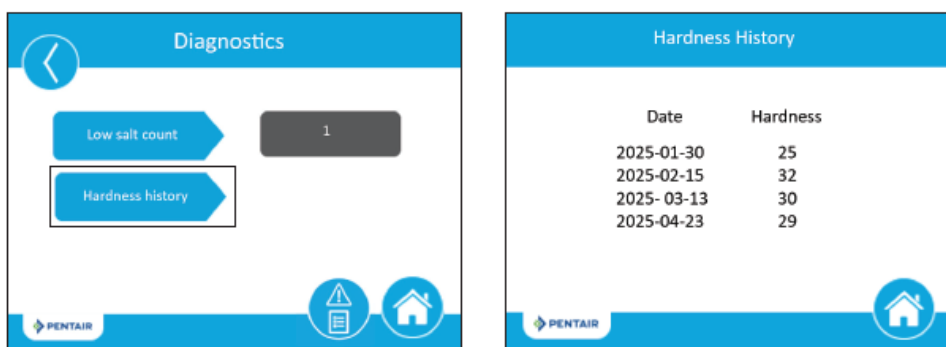
Low salt event monitors the conductivity of brine solution salt during regeneration using the sensors. When a low salt event occurs, the user will be alerted with a no salt alarm on the control. There will also be a counter in the diagnostic pages to track how many times this low-salt event has taken place. This feature can be turned ON/OFF by the user in master settings under the valve submenu.



NEW ACCUSERS FEATURES CONTINUED

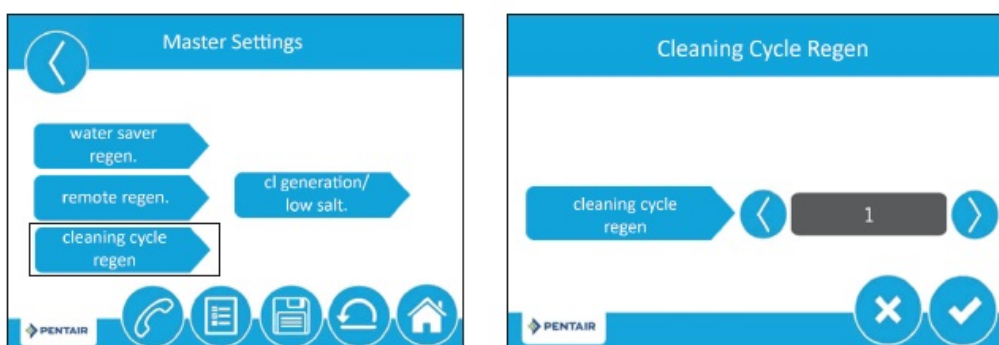
NEW HARDNESS HISTORY IN THE DIAGNOSTIC MENU

For AccuSense Metered, a new diagnostic screen displays the last four (4) hardness values and the date of hardness change.



CLEANING CYCLE REGENERATION

Cleaning cycle regen is a regeneration that performs double the user-set backwash and rapid rinse times to increase the time to clean and rinse the media. This setting sets the number of standard regeneration cycles, 1-25, between each cleaning cycle regeneration.



ADAPTIVE CALENDAR OVERRIDE (ADP)

Adaptive calendar override is a feature that adjusts the calendar override based on the average days between regions. This allows the calendar override to be modified based on the usage and regen patterns.

Available Settings for AccuSense and AccuSense Metered	
Day Override	<ul style="list-style-type: none"> • ADP • Adaptive Calendar Override • Off • 1-99 days

RESERVE TYPES FORACCUSERSE METERED

- Variable Reserve
- Weekly Reserve
- Fixed% %- For AccuSense Metered, the Fixed% % reserve type will only allow 0-20% to be set.
- Fixed Volume- For AccuSense Metered, the Fixed volume reserve type will only allow 0-20% of your total volume.

SHOULD YOU HAVE QUESTIONS ABOUT SETUP, CONTACT PENTAIR TECH SUPPORT AT TECH-SUPPORT@PENTAIR.COM.

For Pentair Product Warranties, visit the website or contact Pentair at the phone numbers below:

Pentair.com/assets/residential-filtration-warrant.y

Pentair Residential Filtration, LLC

- 13845 Bishops Dr.
- Suite 200 | Brookfield, WI 53005 | United States
- P: 262.238.4400
- Customer Service: 800.279.9404 | tech-support@pentair.com | pentair.com

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FAQs


How can I prevent damage to sensor probes during installation?

To prevent damage, do not install sensor probes in tank sensor ports before loading the tank with gravel and/or resin as falling debris could cause damage to the probes.

What type of lubricant should be used for O-rings during sensor probe installation?

A 100% silicone lubricant should be applied to each O-ring before installation to ensure proper sealing without affecting sensor conductivity readings.


Documents / Resources

	PENTAIR 5800 XTR2 Touch Screen Controller [pdf] Installation Guide 580008-009, 580008-010, 580008-011, 580008-015, 5800 XTR2 Touch S creen Controller, 5800 XTR2, Touch Screen Controller, Screen Controller, Controller
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References

- [User Manual](#)

 Pentair

 5800 XTR2, 5800 XTR2 Touch Screen Controller, 580008-009, 580008-010, 580008-011, 580008-015, controller, Pentair, Screen Controller, Touch Screen Controller

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