AquaSmart 7640TS TEMPERATURE SENSOR

Beckett

INSTRUCTION SHEET

Parts List:

(1) 7640TS Temperature Only Sensor
(1) 4582-001 Sensor Retaining Clip

⚠ WARNING

Burn and Scald Hazard

Excessive water temperatures could cause explosion, burns, scalding, pressure relief flooding and fitting leaks.

- Carefully follow the outlined procedures for temperature sensor installation to ensure accurate water temperature sensing and effective control operation.
- Make sure the plumbing for domestic hot water has anti-scald valve protection.

Instructions

This is very important for successful control operation.

1. Make sure the immersion well is clean inside, has no leaks, is of proper length and is otherwise suitable for receiving the new temperature sensor.
2. If unsure of the well condition or if deposit build up on the well is suspected, replace the well. Use pipe sealant to seal the threads.
3. With power to the control off, grasp the pushrod and sensor lead (***Figure 2***) and push the sensor into the well. The sensor must be fully seated at the end of the well for proper temperature sensing.
4. If the control is mounted remotely, additional sensor cable length may be needed to plug the sensor into the control. Use the extension cable (Part No. 52120), found in the 7600RMU Remote Mount Kit, to extend the lead by 48".
5. For remote mount installations, install the sensor retaining clip (Part No. 4582-001) as shown in ***Figure 3***. Do not use the Sensor Retaining Clip when the control is mounted directly on the well.
6. Plug the temperature sensor cable connector into the phone type receptacle on the bottom of the control display. See ***Figure 4***.
7. On well mounted applications, the pushrod may need to be clipped to allow the control door to fully close. When the pushrod is clipped to the proper length, closing the control door and tightening the door screw will help keep the sensor in the correct position. For Beckett immersion wells, follow the instructions shown in ***Table 1***.

Figure 2 - Pushing Sensor into immersion well

Figure 3 - Retaining Clip Install (for Remote Mount ONLY)

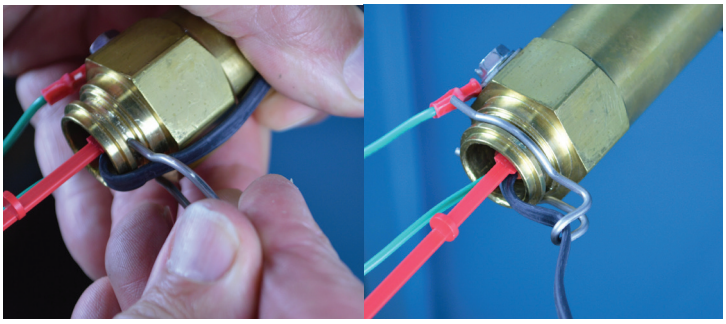


Figure 4 - Temperature Sensor Lead/Receptacle Connection

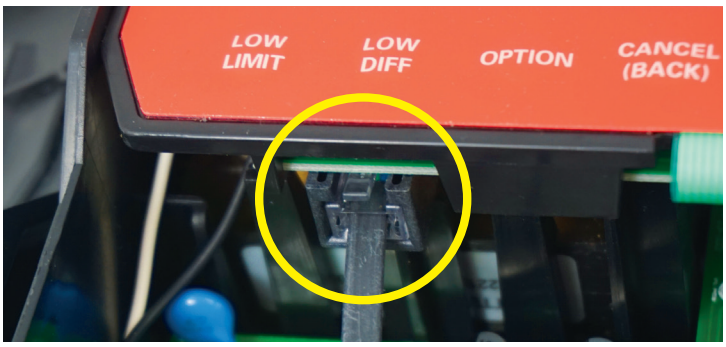
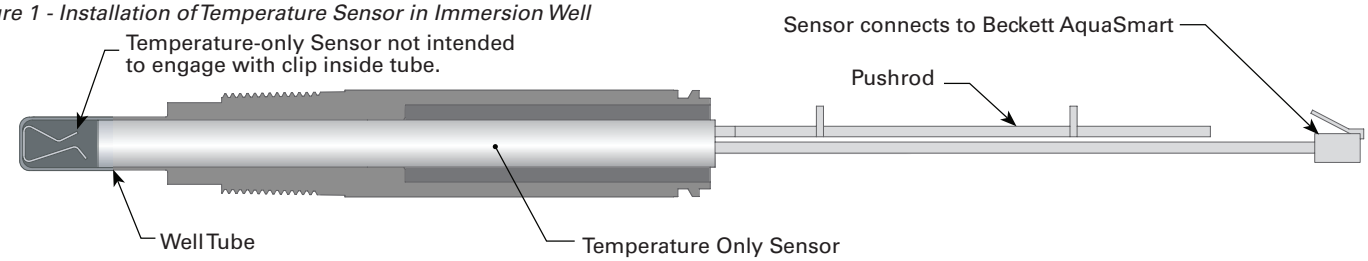


Figure 1 - Installation of Temperature Sensor in Immersion Well

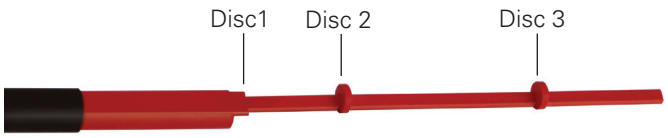


Part No. 62120 R01, Printed in the USA 3/21

For non-Beckett immersion wells, choose the disc furthest out on the pushrod that will still allow the door to close completely. Do not cut or damage the sensor cable.

8. Restore power to the AquaSmart 7610A or 7601B control. Allow the control to go through the start-up process. It could take up to 30 seconds to clear sensor errors.
9. Follow the control checkout procedure to check for proper control operation and limit function.
10. Complete checkout instructions can be found in the AquaSmart control manual which can be viewed or downloaded at www.beckettcorp.com. Proper operation of the control must be confirmed before leaving the installation site.

Table 1 - Sizing Sensor Pushrod to Well Insertion Length



When used with Beckett Thermal Wells		
Beckett #	**Well Size**	**Cut Behind**
7622TW01	2-3/16" insulation, 7/8" insertion	Disc 1
7622TW02	2-3/16" insulation, 1-5/8" insertion	Disc 2
7622TW03	3-1/2" insulation, 1-5/8" insertion	Disc 3
7622TW04	4-3/4" insulation, 1-5/8" insertion	No Cut

- For remote mount applications, cut the push rod at the first disc outside of the well.
- Non-Beckett wells may have different depths, cut pushrod to a length that allows the door to close properly.
- Note: The sensor is not tested or approved for pipe-mount installation. **It is for use with immersion wells only.**

Figure 5 - Clip the pushrod as shown