Hale Products, Inc. Product Bulletin: PB-1075

Effective Date: 1/12/2026

Subject: 200-00093 0-5 PSI Pressure Transducer Replacement Notification

The current tank level pressure transducer has reached its end-of-life late 2025. This transducer is used to measure water and foam tank level on all Class 1 systems (ITL4, ITL40 and SSD). A replacement transducer has been selected, and new orders will see this change starting 1/12/2026.

Top level assembly numbers have not been affected by this change and the process of ordering a new ITL4, ITL40 and SSD kit remains the same.

The replacement transducer has a different electrical connector than the current production sensor and will need to be ordered under a different part number. A 6" adapter harness can be included with the new sensor as a kit for harness modification (as needed). See **TABLE A** on the following page.

Customers ordering a replacement sensor should order the 599-00093-050 Kit so they can adapt their current harness to the new sensor connection. See **APPENDIX A** for a work instruction on how to install the adapter harness.

Note that replacing a 200-00093 transducer with a 200-00190 transducer will require a tank level calibration to be performed. See **APPENDIX B** for a work instruction on how to perform tank level calibration.

<table>
<tr><th colspan="3">TABLE A: Transducer Replacement Reference Guide</th></tr>
<tr><th></th><th>Current Transducer</th><th>Replacement Transducer</th></tr>
<tr><td>Overview</td><td>  </td><td>  </td></tr>
<tr><td>Part Number</td><td>200-00093</td><td>200-00190</td></tr>
<tr><td>Pinout</td><td>
<table>
<tr><th>Position</th><th>Circuit</th><th>Color</th></tr>
<tr><td>A</td><td>V+</td><td>Red</td></tr>
<tr><td>B</td><td>Common</td><td>Black</td></tr>
<tr><td>C</td><td>Output</td><td>White</td></tr>
</table>
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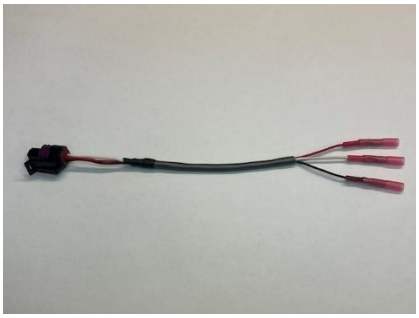
<table>
<tr><th>Position</th><th>Circuit</th><th>Color</th></tr>
<tr><td>1</td><td>V+</td><td>Red</td></tr>
<tr><td>2</td><td>Common</td><td>Black</td></tr>
<tr><td>3</td><td>Output</td><td>White</td></tr>
</table>
</td></tr>
<tr><td>Adapter Harness</td><td></td><td> 
513-00312-000
(For use of converting former harnessing to new connector)</td></tr>
<tr><td>Sensor Replacement Kit</td><td></td><td>599-00093-050
(includes new transducer and adapter harness)</td></tr>
</table>

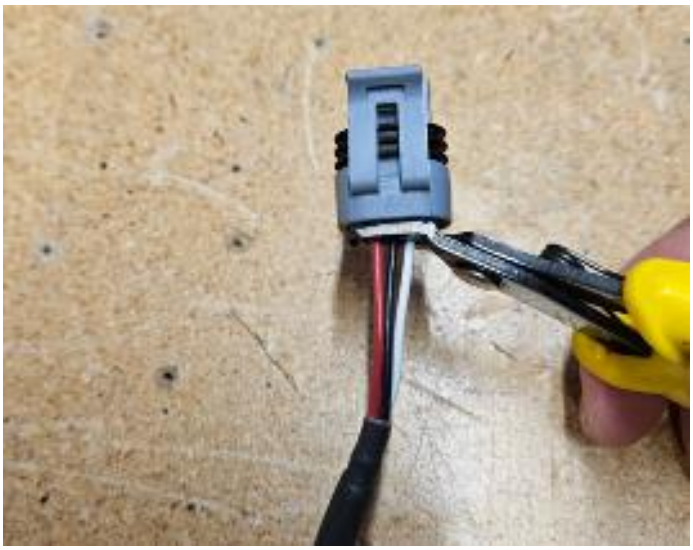
APPENDIX A: ADAPTER HARNESS INSTALLATION INSTRUCTIONS

The following steps must be performed to remove the previous flat-style connector (Aptiv Part Number 12162279), and splice in the new adapter harness (mating connector Aptive part number 12065287).

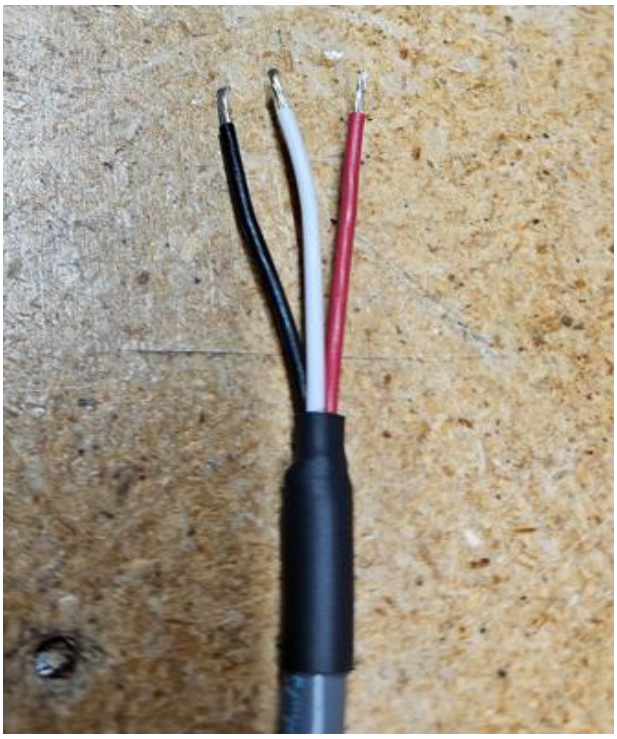
Connector Replacement Instructions

Step 1: Remove power from the system and locate the existing transducer connector (Aptiv P/N 12162279).

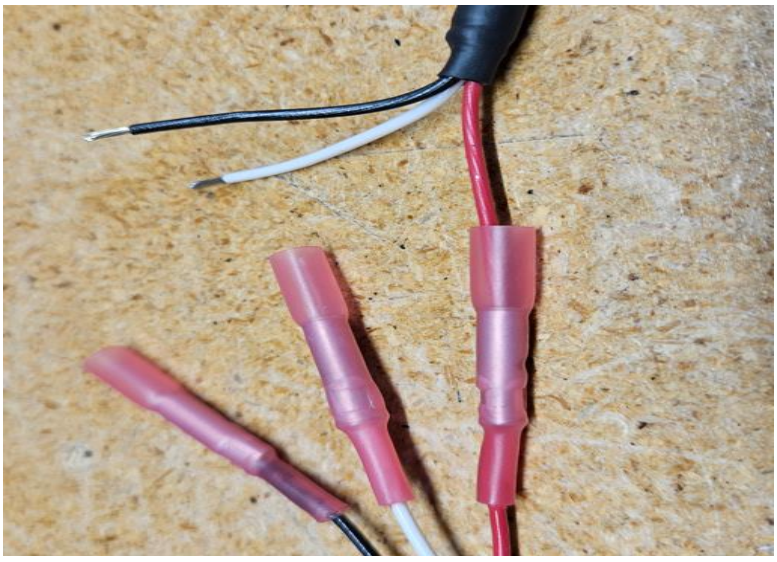
Step 2: Cut the existing connector off as flush as possible to leave wire for the new splice.



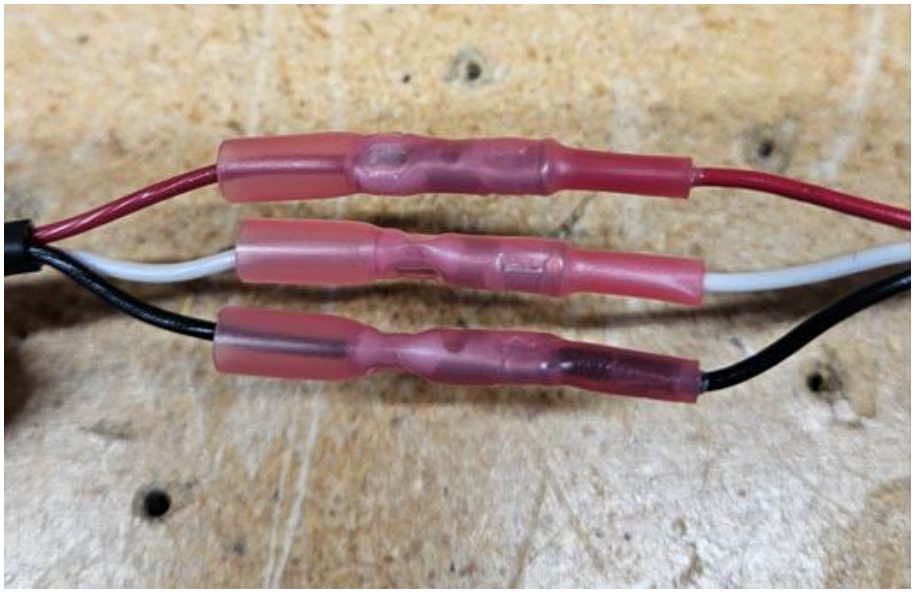
Step 3: Strip 3/16” of insulation off the cut wire.



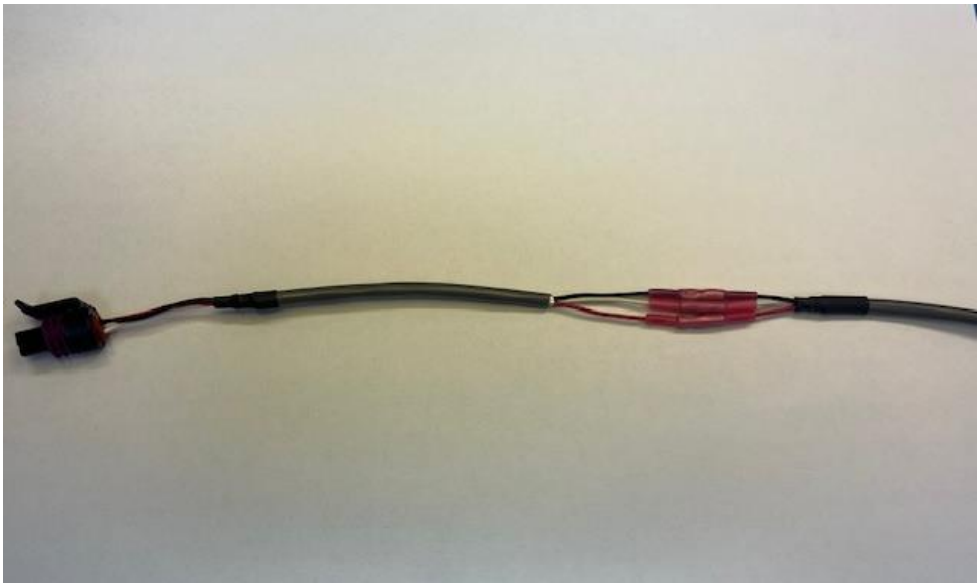
Step 4: Match the wire colors on the adapter harness (513-00312-000) with the existing harness. Insert and crimp wire into the corresponding splice connector.



Step 5: Once crimped, perform a light pull on each wire to ensure you have a secure connection.



Step 6: Apply heat using a heat gun to activate the heat-shrink and create a waterproof seal.



Step 7: Plug connector into the new transducer and calibrate new transducer. See **APPENDIX B** for calibration instructions.

APPENDIX B: Tank Level Calibration Instructions

ITL40 Tank Level
Quick Start Guide

MAGNETIC SWITCH ACTIVATION

A magnet is required to activate the magnetic switches in order to enter passwords.

Each magnetic switch activation must occur within 2 seconds of the last or the password will be reset.

The left column of LEDs will light when the **LEFT** (**L**) magnetic switch is activated.

The right column of LEDs will light when the **RIGHT** (**R**) magnetic switch is activated.

Activate a magnetic switch by using an in-and-out motion starting from approximately two inches away from the bezel.

Do not use a swiping action.

1 POINT CALIBRATION *(FULL)*

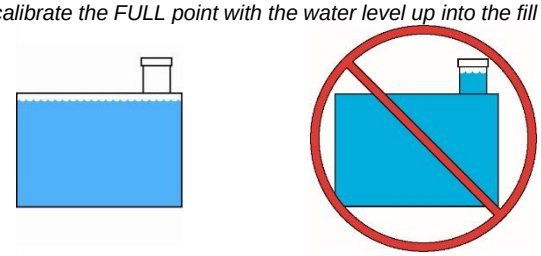
1. FILL the tank. Enter the password **RLLR LRRL** to store the calibration. Unit flashes top row of LEDs, then displays FULL (all LEDs on). Calibration complete.

2 POINT CALIBRATION *(EMPTY, FULL)*

1. Enter the password **RLLR LLRL** to enter 2 point calibration configuration mode. Unit flashes the two center rows of LEDs twice. Unit indicates EMPTY (cascading the LEDs).
2. Ensure the tank is EMPTY. Activate the **RIGHT** switch to store this point. Unit flashes top row of LEDs, then displays FULL (all LEDs lit).
3. FILL the tank. Activate the **RIGHT** switch. Unit flashes top row of LEDs, lights the two center rows of LEDs, then displays FULL (all LEDs lit). Calibration complete.

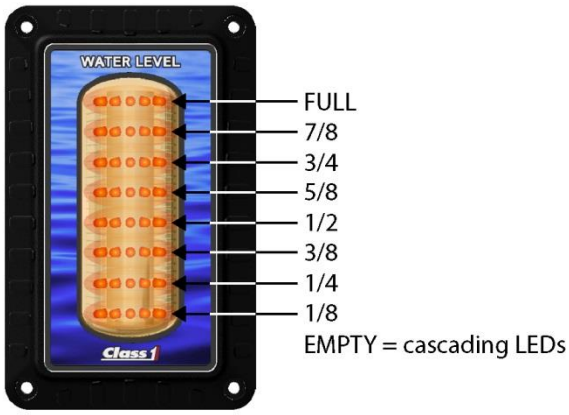
Make certain that the FULL point used for tank calibration is approximately 1 inch [2.54 cm] to 2 inches [5.08 cm] from the physical top of the tank.

Do not calibrate the FULL point with the water level up into the fill tower.



OPERATION

During power up the display will individually cycle on each LED starting with the bottom LED. The unit will then show the custom scroll text and then show the current tank level information.



For detailed operation and troubleshooting consult the full manual (p/n 118253) available from the Class 1 web site **www.Class1.com**

Manual PN 118252 *Rev 041912*

Intelli-Tank Display with 1-wire & CAN
Quick Start Guide

MAGNETIC SWITCH ACTIVATION

A magnet is required to activate the magnetic switches.

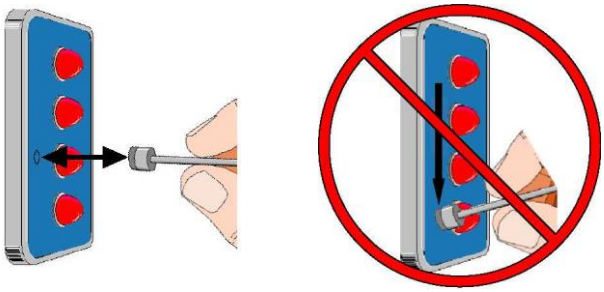
Each magnetic switch activation must occur within 2 seconds of the last or the password will be reset.

The top two LEDs will light when the **LEFT** magnetic switch is activated.

The bottom LED will light when the **RIGHT** magnetic switch is activated.

Activate a magnetic switch by using an in-and-out motion starting from approximately two inches away from the bezel.

Do not use a swiping action.



1 POINT CALIBRATION *(FULL)*

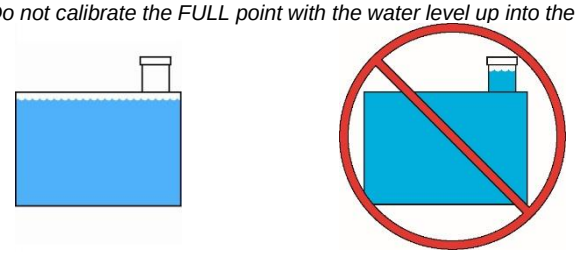
2. FILL the tank. Enter the password **RLLR LRRL** to store the calibration. Unit flashes top LED twice, then displays FULL (all LEDs on). Calibration complete.

2 POINT CALIBRATION *(EMPTY, FULL)*

4. Enter the password **RLLR LLRL** to enter 2 point calibration configuration mode. Unit flashes the two center LEDs twice. Unit begins *cascading (drip)* all four LEDs.
5. Ensure the tank is EMPTY. Activate the **RIGHT** switch to store this point. Unit flashes top LED, then lights all four LEDs.
6. FILL the tank. Activate the **RIGHT** switch. Unit flashes top LED, lights the two center LEDs, then displays FULL (all LEDs on). Calibration complete.

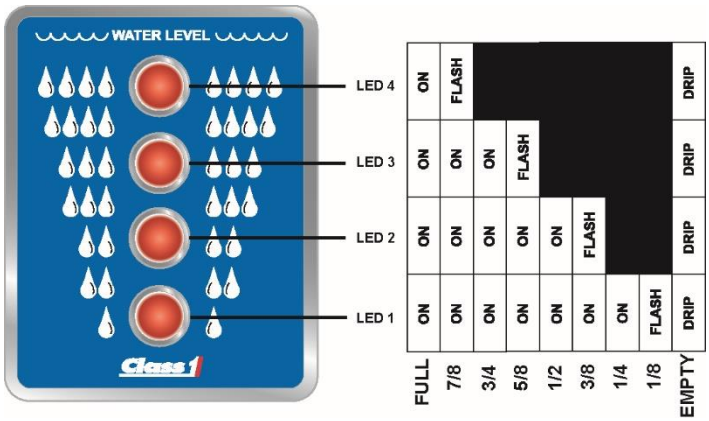
Make certain that the FULL point used for tank calibration is approximately 1 inch [2.54 cm] to 2 inches [5.08 cm] from the physical top of the tank.

Do not calibrate the FULL point with the water level up into the fill tower.



OPERATION

During power up the display will individually cycle on each LED starting with the bottom LED. The unit will then show current tank level information.



DRIP = cascades from top (LED 4) to bottom (LED 1), pauses, and repeats.

For detailed operation and troubleshooting consult the full manual (p/n 114356) available from the Class 1 web site **www.Class1.com**

Manual PN 115355 *Rev 102307*