The Interstitial Sensor for Double-Wall Fiberglass Tanks with high alcohol product uses solid-state liquid level sensing technology to detect liquid in the interstitial space of the tank.

### Part Number

**794380-345**

### Category

- Discriminating
- Non-Discriminating
- Position Sensitive
- Level Sensing
- Static Testing
- Hydrostatic

### Fuel Compatibility

- Gas
- Diesel
- Kerosene
- Jet Fuel
- Aviation Gas
- E-15
- E-85
- E-100
- Green Diesel
- DEF
- Waste Oil
- Motor Oil

### Console Compatibility (*International Only ¹*)

<table>
<thead>
<tr>
<th>Sensor Interface Modules</th>
<th>Module Part #</th>
<th>Module Description</th>
<th># of Modules per Console</th>
<th># of Sensor Inputs per Module</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLS-450PLUS (8600 Series)</td>
<td>6A or Higher</td>
<td>332812-001</td>
<td>Universal Sensor Module (USM)</td>
<td>Up to 4 - TLS-4XX</td>
<td>16</td>
</tr>
<tr>
<td>TLS-450</td>
<td>4A or Higher</td>
<td>330020-750</td>
<td>Universal Sensor Input Out-put Module (USIOM-AC)</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>TLS4 (8601 Series) ¹</td>
<td>6A or Higher</td>
<td>330202-751</td>
<td>Type A Sensor Interface Module</td>
<td>Up to 8</td>
<td>8</td>
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<tr>
<td>TLS4i (8601 Series) ¹</td>
<td></td>
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<td>N/A</td>
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<tr>
<td>TLS4b (8601 Series) ¹</td>
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<td>N/A</td>
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<tr>
<td>TLS4c (8601 Series) ¹</td>
<td></td>
<td></td>
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<td></td>
<td>N/A</td>
</tr>
<tr>
<td>TLS-350/R/PLUS</td>
<td>124/324 or Higher</td>
<td>329956-001</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Alarm Notification

- Normal: Sensor in Normal State - No liquid detected
- Fuel Alarm: Liquid detected
- Sensor Out: Sensor not communicating to ATG/Console

### Specifications

- **Operating Principle**: Optical - looking at phase changes in the light beams by causing them to interact or interfere with one another
- **Product Activation Height**: Fuel or Water <0.2” (0.5cm); E85 <0.4” (1cm)
- **Operating Temperature**: -40 to +122°F (-40 to +50°C)
- **Dimensions**: 4.3” (11cm) length, 1.5” (3.8cm) width, 0.5” (1.3cm) thick
- **Miscellaneous/Notes**: Standard Cable 25ft (7.6m) fits 4 to 10ft (1.2 to 3m) I.D. fiberglass tanks
- **Third Party Evaluation Links**: TLS-350/TLS-450 Series Consoles
- **Product Link**: Solid-State Alternative Ethanol Fluid Interstitial Sensor
- **Warranty with System**: 1 Yr Parts & Labor
- **Warranty (When purchased separately)**: 1 Yr Parts Only

### Where Used (Typical)

- Convault Tank
- Annular Space
- Monitoring Well
- Oil/Water Separator Tank

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**Example Installation**

- Manhole
- Seal-off
- Rigid conduit (to console)
- Weatherproof junction box
- Sensor must reach bottom of tank
- Fiberglass tank
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**Example Illustrations**

Illustrations used in this guide for example sensor installations may contain components that are customer supplied and not included with the sensor. Please check with your Veeder-Root Distributor for recommended installation accessories.

**Third Party Evaluations**

Third party evaluations of the Veeder-Root sensors contained in this application guide can be found under the Veeder-Root vendor name on the National Work Group on Leak Detection Evaluations (NWGLDE) website:

http://www.nwglde.org

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