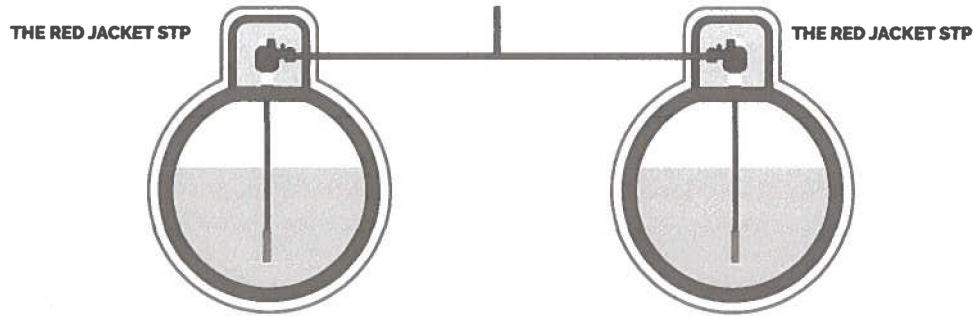


## ► SUPPORTS MANIFOLDED LINES

One transducer per manifolded line is required



### STPs and Piping

Supports a wide-range of pump and pipe types.

Utilizes Swiftcheck Valve on early generation Red Jacket Standard STPs.

For further details, [click here for the Line Leak Application Guide](#)

### Line Leak Transducer Specifications

<b>Operating Temperature</b>	-25 °F to +130 °F
<b>Compatible Fuel Types</b>	<ul style="list-style-type: none"> <li>• Unleaded Gasoline</li> <li>• Leaded Gasoline</li> <li>• 5% Methanol</li> <li>• Up to 100% Ethanol</li> <li>• 15% MTBE</li> <li>• Diesel</li> <li>• Biodiesel (Up to B100)</li> <li>• Kerosene</li> <li>• Jet Fuel</li> <li>• Aviation Gasoline</li> <li>• DEF</li> </ul>
<b>Line Flow Rate</b>	120 GPM Max w/ Swiftcheck Valve
<b>Operating Range</b>	0 – 70 PSI
<b>Proof Pressure</b>	200 PSI
<b>Maximum Vertical Pipeline Height Above Transducer</b>	11 ft
<b>Minimum Pump Output Pressure</b>	23 PSI
<b>Maximum Volume of Fuel Monitored</b>	<ul style="list-style-type: none"> <li>• TLS-450PLUS – 1178 gallons</li> <li>• TLS-350 – 212 gallons</li> </ul>

### TLS-450PLUS Line Leak Digital Transducer Ordering Information


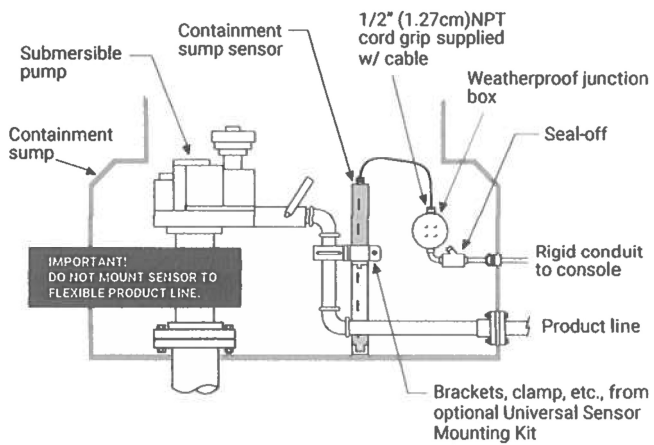
Part Number	Description
859080-001	Digital Pressurized Line Leak Detector (DPLLD) without SwiftCheck Valve, UL
859080-002	Digital Pressurized Line Leak Detector (DPLLD) with SwiftCheck Valve, UL
332812-001	16 Input Universal Sensor Module (USM)
332813-001	5 Universal Input/Output Interface Module (UIOM), Relay Control and Input Signal Monitoring
332972-007	Ultimate Testing: Digital Line Leak Detection*
332972-008	Risk Management: Digital Line Leak Detection*
332972-009	Base Compliance: Digital Line Leak Detection*

### TLS-350 Line Leak Analog Transducer Ordering Information

Part Number	Description
848480-001	Pressurized Line Leak Detector (PLLD) without SwiftCheck Valve, UL
848480-003	Pressurized Line Leak Detector (PLLD) with SwiftCheck Valve, UL
330843-001	6 Input Pressurized Line Leak Interface for use with PLLD Module
330374-001	3 Output Pressurized Line Leak Controller
330160-010	Ultimate Testing: Pressurized Line Leak Detection (PLLD)*
330160-060	Risk Management: Pressurized Line Leak Detection (PLLD)*
330160-050	Base Compliance: Pressurized Line Leak Detection (PLLD)*

\* One per system required for precision line leak detection capability.

NOTE: The TLS-350 analog transducer is not compatible with the TLS-450PLUS ATG.

<b>Sensor Description</b>	<b>Solid-State - Non-Discriminating Containment Sump Sensor</b>	This Solid-State, Non-Discriminating Sensor is installed typically in a containment sump area to detect the presence of a liquid. Its optical liquid level technology requires no moving parts, allowing it to operate in sub-zero temperatures.				
<b>Part Number</b>	<b>794380-351</b>					
<b>Category</b>	<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive		<input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic			
<b>Fuel Compatibility</b>	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Aviation Gas	<input checked="" type="checkbox"/> E-15 <input type="checkbox"/> E-85 <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100	<input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil			
<b>Console Compatibility (*International Only<sup>1</sup>)</b>	<b>Recommended Min. Console Software</b>	<b>Sensor Interface Modules</b>				
		<b>Module Part #</b>	<b>Module Description</b>	<b># of Modules per Console</b>	<b># of Sensor Inputs per Module</b>	<b>Availability</b>
TLS-450PLUS (8600 Series)	6A or Higher	332812-001	Universal Sensor Module (USM)	Up to 4 - TLS-4XX Up to 8 - TLS-4XX w/ opt. TLS-XB	16	Sold Separately
TLS-450	4A or Higher					
TLS4 (8601 Series) <sup>1</sup>	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)						
TLS4B (8601 Series) <sup>1</sup>		330020-751			6	
TLS4c (8601 Series)						
TLS-350/R/PLUS	124/324 or Higher	329956-001	Type A Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J	N/A					
TLS-300i						
TLS-300C						
<b>Alarm Notification</b>	Normal	Sensor in Normal State - No liquid detected				
	Fuel Alarm	Liquid detected - Approx. 1.0" (2.54cm)				
	High Liquid	Sensor not communicating to ATG/Console				
<b>Installation Kit</b>	330020-012	Universal Sensor Mounting Kit (Sold separately)				
<b>Specifications</b>	<b>Example Installation</b>					
<b>Operating Principle</b>	Optical - Looking at phase changes in the light beams by causing them to interact or interfere with one another		 <p>Submersible pump</p> <p>Containment sump</p> <p>Containment sump sensor</p> <p>1/2" (1.27cm) NPT cord grip supplied w/ cable</p> <p>Weatherproof junction box</p> <p>Seal-off</p> <p>Rigid conduit to console</p> <p>Product line</p> <p>Brackets, clamp, etc., from optional Universal Sensor Mounting Kit</p> <p><b>IMPORTANT: DO NOT MOUNT SENSOR TO FLEXIBLE PRODUCT LINE.</b></p>			
<b>Product Activation Height</b>	Fuel or Water - Approx. 1" (2.54cm)					
<b>Operating Temperature</b>	-40 to +122°F (-40 to +50°C)					
<b>Dimensions</b>	22.1" (56.1cm) high, 2.2" (5.6cm) dia.					
<b>Miscellaneous/Notes</b>	Standard Cable Length: 12ft (3.66m)					
<b>Third Party Evaluation Links</b>	<a href="#">TLS-350/TLS-450 Series Consoles</a> <a href="#">TLS4 (8601 Series) Consoles</a>					
<b>Product Link</b>	<a href="#">Solid-State Non-Discriminating Containment Sump Sensor</a>					
<b>Warranty with System</b>	1 Yr Parts & Labor					
<b>Warranty (When purchased separately)</b>	1 Yr Parts Only					
<b>Where Used (Typical)</b>	<input type="checkbox"/> Dispenser Pan <input checked="" type="checkbox"/> Spill Containment <input checked="" type="checkbox"/> STP Sump					
	<input type="checkbox"/> Convault Tank <input type="checkbox"/> Annular Space <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Oil/Water Separator Tank					

**Veeder-Root**

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To: Veeder-Root ATG customers  
 From: Jeff Kappler, ATG Product Manager  
 Date: October 7<sup>th</sup>, 2013  
 Re: Biodiesel compatibility

The products listed in the table below are compatible with the alternative fuels as shown. TLS-450/350/300/2 tank gauge systems can be combined with any of these products to monitor the alternative fuels listed.

Equipment Type	Series or P/N	ASTM D6751 Biodiesel	Ethanol	Methanol
Magnetostrictive Probes (Aluminum)	Series 8463x0, 8473x0	0-20%	0-15%	0-7%
Magnetostrictive Probes (Stainless Steel)	Series 8463x1, 8473x1	0-100%	0-100%	0-100%
Continuous Interstitial Tank System	P/N 857280-100, -200, -30x	0-20%	0-15%	0-5%
Electronic Line Leak Detector	Series 8475, 8484, 8494	0-20%	0-15%	0-5%
Groundwater Monitoring	P/N 794380-621, -622, -624	0-20%	0-15%	0-5%
Interstitial Detectors	P/N 794380-xxx P/N 794390-xxx P/N 847990-001, -002 P/N 857060-xxx P/N 857080-xxx	0-20%	0-15%	0-5%
Vapor Monitoring	P/N 394390-700	0-20%	0-15%	0-5%
Red Jacket Submersible Turbine Pump (non-AG)	P/N 41014x-xxx	0-20%	0-10%	0-10%
Red Jacket Submersible Turbine Pump (AG)	P/N 41014x-xxx	0-100%	0-100%	0-100%
Red Jacket FX Leak Detector	FXV series	0-20%	0-15%	0-20%

Jeff Kappler  
 ATG Product Manager