

Sensor Products

Application Guide



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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>



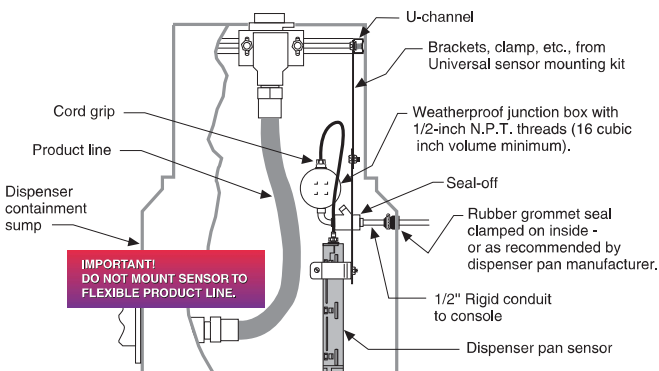
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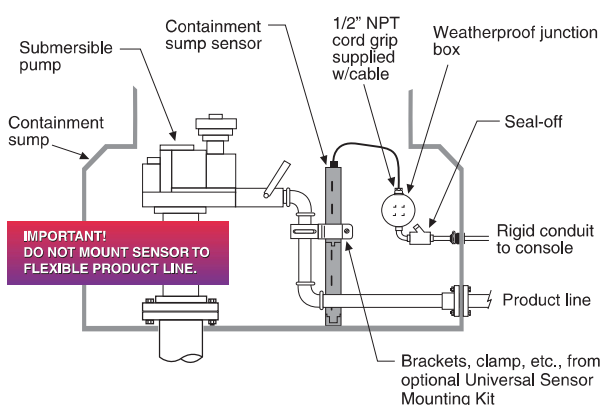
Sensor Application Matrix



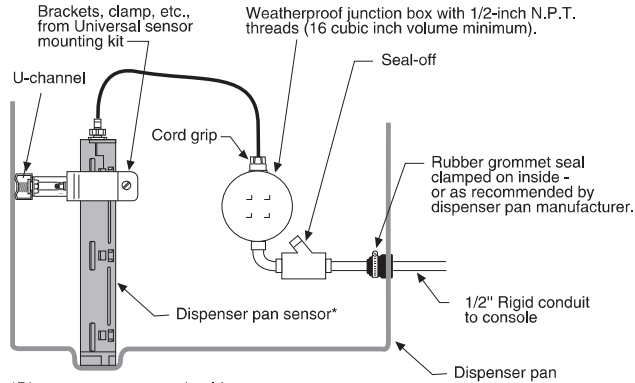
			Where Used							Category							Fuel Compatibility													
Sensor Description	Form #	Page #	Dispenser Pan	Spill Containment	STP Sump	Convault Tank	Annular Space	Monitoring Well	Oil/Water Separator tank	Discriminating	Non-Discriminating	Position Sensitive	Level Sensing	Static Testing	Hydrostatic	100% Gasoline	Diesel	Kerosene	Jet Fuel	Aviation Gas	E-15	E-85	E-100	Bio-Diesel 20	Bio-Diesel 100	Renewable (Green) Diesel	Diesel Exhaust Fuel (DEF)	Waste Oil	Motor Oil	
DPS Standard Dispenser Pan	794380-322	2	X	X						X						X	X	X	X	X	X	X ¹		X		X		X	X	
CSS Standard Containment Sump	794380-352	3		X	X					X						X	X	X	X	X	X	X ¹		X		X		X	X	
DPO Optical Dispenser Pan	794380-320	4	X	X						X						X	X	X	X	X	X	X ¹		X		X		X	X	
CSO Optical Containment Sump	794380-350	5		X	X					X						X	X	X	X	X	X	X ¹		X		X		X	X	
MSS Mag Sump Sensor	857080-XXX	6	X	X	X					X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SSDP Solid-State Dispenser Pan	794380-321	7	X	X							X					X	X	X	X	X	X			X	X	X		X	X	
SSCS Solid-State Containment Sump	794380-351	8		X	X						X					X	X	X	X	X	X			X	X	X		X	X	
Piping Sump	794380-208	9	X	X	X						X					X	X	X	X	X	X			X		X		X	X	
Non-Discriminating Standalone Dispenser Pan	847990-001	10	X	X	X						X					X	X	X	X	X	X			X		X		X	X	
Position-Sensitive	794380-323	11	X	X	X						X	X				X	X	X	X	X	X	X	X	X		X		X	X	
Interstitial for Fiberglass Tanks, Discriminating	794380-343	12					X			X						X	X	X	X	X	X			X	X	X	X	X	X	
Interstitial for Fiberglass Tanks	794390-409	13					X				X					X	X	X	X	X	X			X		X				
Interstitial for Fiberglass Tanks, High Alcohol	794380-345	14					X				X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Interstitial for Steel Tanks	794390-4X0	15			X		X				X					X	X	X	X	X	X			X		X		X	X	
Interstitial for Steel Tanks, Position Sensitive ²	794380-333	16		X			X				X	X				X	X	X	X	X	X	X	X	X	X	X		X	X	
Interstitial for Steel Tanks, High Alcohol	794380-430	17					X				X					X	X	X	X	X	X	X	X	X	X	X		X	X	
Interstitial for Steel Tanks, High Alcohol, small footprint	794380-344	18		X			X				X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Hydrostatic Reservoir (Dual Point)	794380-303	19					X							X		X	X	X	X	X	X	X ¹	X ¹	X		X		X	X	
Single-Point Hydrostatic Sensor	794380-301	20					X							X		X	X	X	X	X	X	X ¹	X ¹	X		X				
Single-Point Mini-Hydrostatic Reservoir (High Alcohol)	794380-304	21					X							X		X	X	X	X	X	X	X	X	X	X	X		X	X	
Vapor	794390-700	22						X								X			X	X	X									
Groundwater	794380-62X	23						X								X	X	X	X	X	X			X		X		X	X	
Oil / Water Separator	794690-XXX	24							X							X	X	X	X	X	X			X				X	X	



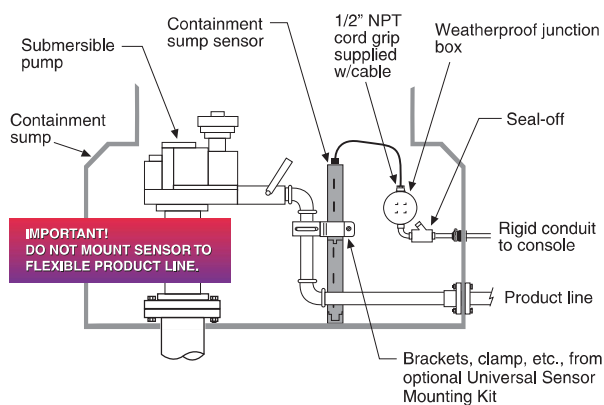
¹Single use only if sensor was exposed to E85 or E100 (Test per Sensor Operability Guide [P/N 577013-814] in E-10 or less)



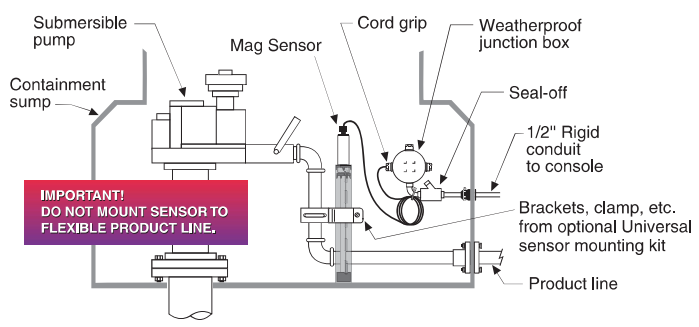
²Small Containment Areas (i.e. Spill Buckets)



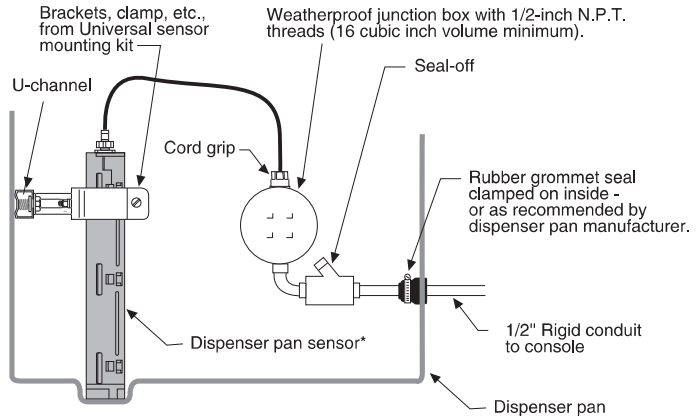
Sensor Description	Discriminating Dispenser Pan Sensor	This type of discriminating sensor is installed in a dispenser pan and will detect the presence of, and differentiate between, hydrocarbons and other liquids.		Sensor Matrix 		
Form Number	794380-322					
Where Used (Typical)	<input checked="" type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank		Category			
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100		<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic			
¹ Single Use Only (Test per Sensor Operability Guide in E-10 or less)						
Console Compatibility (International Only²)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
TLS-450PLUS (8600 Series)	6A or Higher	332812-001	Universal Sensor Module (USM)	Up to 4 - TLS-4XX	16	Sold Separately
TLS-450	4A or Higher	332812-001		Up to 8 - TLS-4XX w/opt. TLS-XB		
² TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
² TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Sensor in Normal State- No liquid detected				
	Low Liquid	Liquid detected at a minimum of 1.37" (3.48cm)				
	High Liquid	Liquid detected at a minimum of 7.66" (19.45cm)				
	Fuel Alarm	Permeable material saturated with Fuel				
	Sensor Out	Sensor not communicating to ATG / Console				
Installation Kit	330020-012	Universal Sensor Mounting Kit (Sold separately)				
Specifications			Example Installation			
Operating Principle	Product Permeable, Reed Switch /Float		 <p>Dispenser pan sensor should:</p> <ol style="list-style-type: none"> 1. Rest in the cup or the lowest point of the dispenser containment sump. 2. Be positioned so as to be removable by pulling the sensor straight up out of the pan. 3. Be mounted in a true vertical position. 			
Product Activation Height	Gas - 0.125" (3.175mm); Water - low 1.37" (3.48cm), High 7.66" (19.45cm)					
Operating Temp	+32 to +140°F (0 to +60°C)					
Dimensions	11.6" (29.4cm) high, 2.2" (5.6cm) dia.					
Miscellaneous / Notes	Standard Cable Length: 12 Feet					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Discriminating Dispenser Pan Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



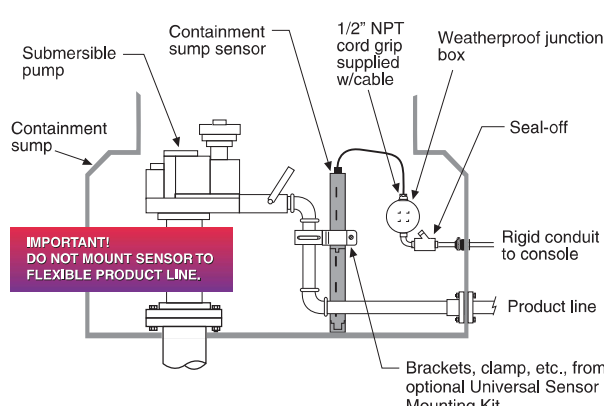
Sensor Description	Discriminating Containment Sump Sensor	This type of discriminating sensor is installed in a containment sump area. It detects the presence of, and differentiates between, hydrocarbons and other liquids.	Sensor Matrix 			
Form Number	794380-352					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank		Category			
Fuel Compatibility	 <div> <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> E-85¹ <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100 </div> <p>¹Single Use Only (Test per Sensor Operability Guide in E-10 or less)</p>		<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic			
Console Compatibility (International Only²)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
² TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
² TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Sensor in Normal State- No liquid detected				
	Low Liquid	Liquid detected at a minimum of 1.35" (3.4cm)				
	High Liquid	Liquid detected at a minimum of 12.28" (31.19cm)				
	Fuel Alarm	Permeable material saturated with Fuel				
	Sensor Out	Sensor not communicating to ATG / Console				
Installation Kit	330020-012	Universal Sensor Mounting Kit (Sold separately)				
Specifications			Example Installation			
Operating Principle	Product Permeable, Reed Switch /Float		 <p>IMPORTANT! DO NOT MOUNT SENSOR TO FLEXIBLE PRODUCT LINE.</p>			
Product Activation Height	Gas - 0.125" (3.175mm); Water - low 1.35" (3.4cm), High 12.28" (31.19cm)					
Operating Temp	+32 to +140°F (0 to +60°C)					
Dimensions	22.1" (56.1cm) high, 2.2" (5.6cm) dia.					
Miscellaneous / Notes	Standard Cable Length: 12 Feet					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Discriminating Containment Sump Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



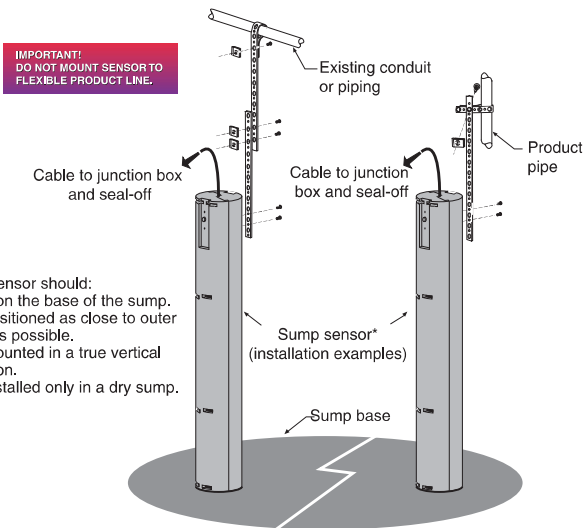
Sensor Description	Solid-State - (Optical) Discriminating Dispenser Pan Sensor	This type of discriminating sensor is installed in a dispenser containment sump area. It detects the presence of, and differentiates between, hydrocarbons and other liquids.		Sensor Matrix 		
Form Number	794380-320					
Where Used (Typical)	<input checked="" type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank		Category			
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100		<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic			
		¹ Single Use Only (Test per Sensor Operability Guide in E-10 or less)				
Console Compatibility (*International Only²)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	8	Sold Separately
TLS-450	4A or Higher	332812-001				
² TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	6	Included
TLS4i (8601 Series)		330020-750				
² TLS4B (8601 Series)		330020-751			4	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329950-001	Type B Interface Module	Up to 8	6	Sold Separately
TLS-300i	NA					
TLS-300C						
Alarm Notification	Normal	Sensor in Normal State- No liquid detected				
	Low Liquid	Liquid detected at a minimum of 1.37" (3.4cm)				
	High Liquid	Liquid detected at a minimum of 7.66" (19.45cm)				
	Fuel Alarm	Permeable material saturated with fuel				
	Sensor Out	Sensor not communicating to ATG / Console				
Installation Kit	330020-012	Universal Sensor Mounting Kit (Sold separately)				
Specifications			Example Installation			
Operating Principle	Electrical conductivity / optical		 <p>*Dispenser pan sensor should:</p> <ol style="list-style-type: none"> 1. Rest in the cup or the lowest point of the dispenser pan. 2. Be positioned so as to be removable by pulling the sensor straight up out of the pan. 3. Be mounted in a true vertical position. 			
Product Activation Height	Gas - 0.125" (3.175mm); Water - low 1.37" (3.4cm), High 7.66" (19.45cm)					
Operating Temp	-40 to +122°F (-40 to +50°C)					
Dimensions	11.6" (29.4cm) high, 2.2" (5.6cm) dia.					
Miscellaneous / Notes	Standard Cable Length: 12 Feet					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State Discriminating Dispenser Pan Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



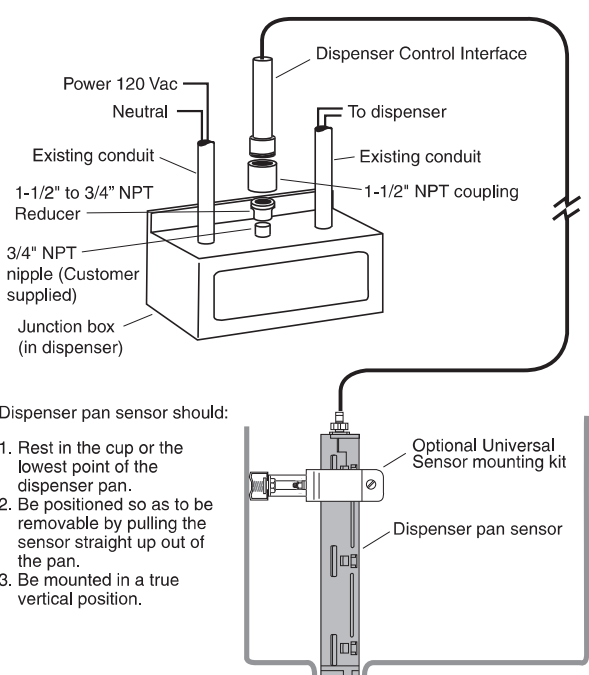
Sensor Description	Solid-State - (Optical) Discriminating Containment Sump Sensor	This type of discriminating sensor is installed in a containment sump and will detect the presence of, and differentiate between, hydrocarbons and other liquids.		Sensor Matrix 		
Form Number	794380-350					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank			Category		
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100			<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic		
¹ Single Use Only (Test per Sensor Operability Guide in E-10 or less)						
Console Compatibility (*International Only²)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	8	Sold Separately
TLS-450	4A or Higher	332812-001				
² TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Out- put Module (USIOM-AC)	1	6	Included
TLS4i (8601 Series)		330020-750				
² TLS4B (8601 Series)		330020-751			4	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329950-001	Type B Interface Module	Up to 8	6	Sold Separately
TLS-300i	NA					
TLS-300C	NA					
Alarm Notification	Normal	Sensor in Normal State- No liquid detected				
	Low Liquid	Liquid detected at a minimum of 1.37" (3.48cm)				
	High Liquid	Liquid detected at a minimum of 10.3" (26.2cm)				
	Fuel Alarm	Permeable material saturated with Fuel				
	Sensor Out	Sensor not communicating to ATG / Console				
Installation Kit	330020-012	Universal Sensor Mounting Kit (Sold separately)				
Specifications			Example Installation			
Operating Principle	Electrical conductivity / optical					
Product Activation Height	Gas - 0.125" (3.175mm); Water - Low - 1.37" (3.4cm), High - 10.3" (26.2cm)					
Operating Temp	-40 to +122°F (-40 to +50°C)					
Dimensions	22.1" (56.1cm) high, 2.2" (5.6cm) dia.					
Miscellaneous / Notes	Standard Cable Length: 12 Feet					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State Discriminating Containment Sump Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



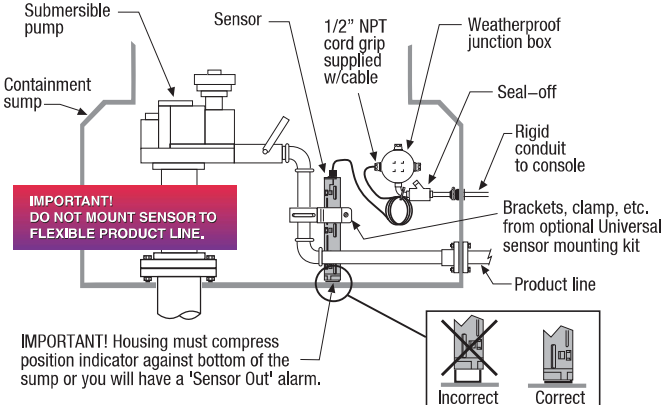
Sensor Description	Magnetostrictive Discriminating Level Indicating Containment Sump Sensor	This type of sensor is installed in a dispenser pan or containment sump and will detect the presence of, and differentiate between, fuel and other liquids.	Sensor Matrix 			
Form Number	857080-111 (12"), -112 (24") / 857080-211 (12"), -212 (24"). The -211 and -212 sensors are capable of performing a Sump Integrity Test					
Where Used (Typical)	<input checked="" 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	Category			
Fuel Compatibility	<div style="display: flex; align-items: center;">  <div> <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 </div> <div> <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 </div> <div> <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil </div> </div>					
Console Compatibility (*International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input/Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher (-211 and -212 sensors require 126/326 or higher)	329356-004	Smart Sensor Interface Module	Up to 8	8	Sold Separately
TLS-300i	NA					
TLS-300C						
Alarm Notification	Normal	Sensor in Normal State- No liquid detected				
	Water Alarm	Water detected at a minimum of 1.614" (2.83cm)				
	Fuel Alarm	Fuel detected 1.368" (3.47cm)				
	Sensor Comm Alarm	Sensor not communicating to ATG / Console				
Installation Kit	330020-012	Universal Sensor Mounting Kit (Sold separately)				
Specifications			Example Installation			
Operating Principle	Magnetostrictive probe with dual floats					
Product Activation Height	Water 1.614" (4.1cm), Fuel 1.368" (3.47cm)					
Operating Temp	-40°C to +60°C					
Dimensions	2.4" (6.1cm) Diameter; 21.4" (54.4cm) Long (-111 and -211 models), 33.4" (84.8cm) Long (-112 and -212 models)					
Miscellaneous / Notes	Standard Cable Length: 10 Feet					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Mag Sump Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



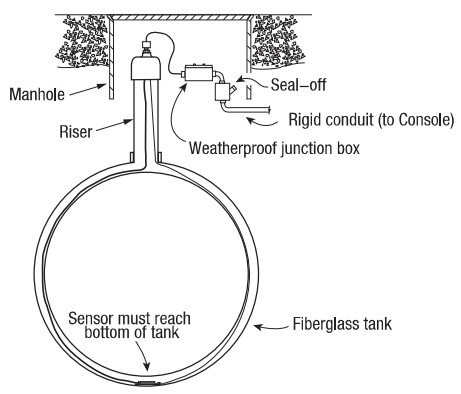
Sensor Description	Solid-State - Non-Discriminating Dispenser Pan Sensor	This solid-state, non-discriminating sensor is installed typically in a dispenser pan location to detect the presence of a liquid. Its optical liquid level technology requires no moving parts, allowing it to operate in sub-zero temperatures.		Sensor Matrix 		
Form Number	794380-321					
Where Used (Typical)	<input checked="" type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank		Category			
Fuel Compatibility	<input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> E-85 <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input checked="" type="checkbox"/> Bio-Diesel 100		<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			
						
Console Compatibility (*International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751				
TLS4c (8601 Series)		330020-751				
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						
Alarm Notification	Normal	Sensor in Normal State- No liquid detected				
	Fuel Alarm	Liquid detected - Approx. 1.0" (2.54cm)				
	Sensor Out	Sensor not communicating to ATG / Console				
Installation Kit	330020-012	Universal Sensor Mounting Kit (Sold separately)				
Specifications			Example Installation			
Operating Principle	Optical- Looking at phase changes in the light beams by causing them to interact or interfere with one another		 <p>*Dispenser pan sensor should:</p> <ol style="list-style-type: none"> 1. Rest in the cup or the lowest point of the dispenser pan. 2. Be positioned so as to be removable by pulling the sensor straight up out of the pan. 3. Be mounted in a true vertical position. 			
Product Activation Height	Fuel or Water - Approx. 1" (2.54cm)					
Operating Temp	-40 to +122°F (-40 to +50°C)					
Dimensions	11.6" (29.4cm) high, 2.2" (5.6cm) dia.					
Miscellaneous / Notes	Standard Cable Length: 12 Feet (3.66m)					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State - Non-Discriminating Dispenser Pan Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



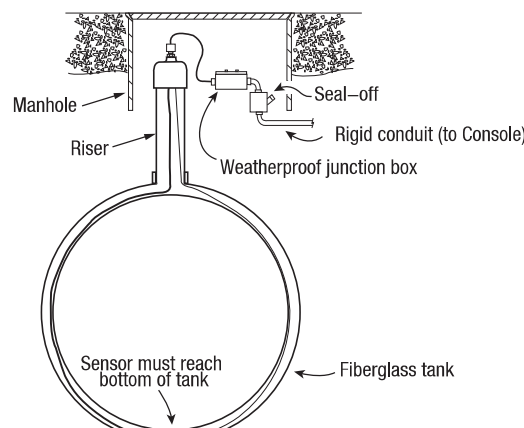
Sensor Description	Solid-State - Non-Discriminating Containment Sump Sensor	This solid-state, non-discriminating sensor is installed typically in a containment sump area to detect the presence of a liquid. Its optical liquid level technology requires no moving parts, allowing it to operate in sub-zero temperatures.		Sensor Matrix 		
Form Number	794380-351					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank			Category		
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> E-85 <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input checked="" type="checkbox"/> Bio-Diesel 100			<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		
Console Compatibility (*International Only*)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751				
TLS4c (8601 Series)		330020-751				
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						
Alarm Notification	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				
Installation Kit	330020-012	Universal Sensor Mounting Kit (Sold separately)				
Specifications			Example Installation			
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 - Approx. 1" (2.54cm)					
Operating Temp	-40 to +122°F (-40 to +50°C)					
Dimensions	22.1" (56.1cm) high, 2.2" (5.6cm) dia.					
Miscellaneous / Notes	Standard Cable Length: 12 Feet (3.66m)					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State Non-Discriminating Containment Sump Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



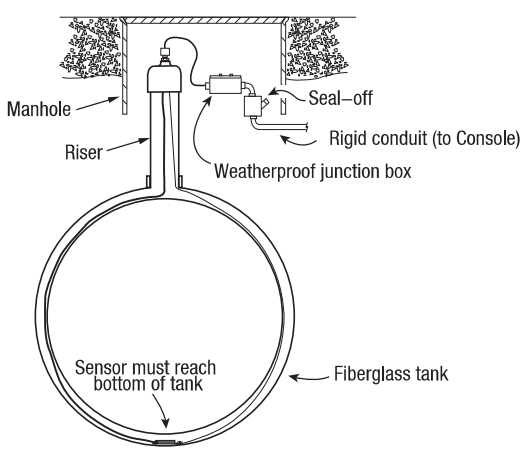
Sensor Description	Piping Sump Sensor	The piping Sump Sensor is install in a tank piping sump (STP Containment Sump) and will detect the presence of a liquid.		Sensor Matrix 		
Form Number	794380-208					
Where Used (Typical)	<input checked="" type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank			Category <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		
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> E-85 <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100					
Console Compatibility (*International Only*)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Sensor in Normal State- No liquid detected				
	Fuel Alarm	Liquid detected at a minimum of 1.84" (4.67cm)				
	Sensor Out	Sensor not communicating to ATG / Console				
Installation Kit	330020-076	Sensor Mounting Kit is included (see example installation below).				
Specifications			Example Installation			
Operating Principle	Float/magnetic reed switch		 <p>*Sump sensor should:</p> <ol style="list-style-type: none"> 1. Rest on the base of the sump. 2. Be positioned as close to outer wall as possible. 3. Be mounted in a true vertical position. 4. Be installed only in a dry sump. 			
Product Activation Height	Liquid 1.84" (4.67cm)					
Operating Temp	+32 to +140°F (0 to +60°C)					
Dimensions	12" (30.5cm) high, 1.9" (4.8cm) dia.					
Miscellaneous / Notes	Standard Cable Length: 12Feet (3.66m). Installation kit 330020-076 included (see example installation).					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Piping Sump Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



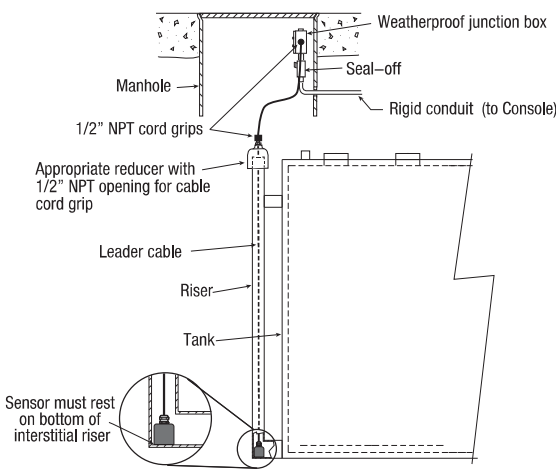
Sensor Description	Non-Discriminating Standalone Dispenser Pan Sensor	The Non-Discriminating Standalone Dispenser Pan Sensor is designed to detect liquid in a dispenser pan containment. When fluid is detected in the dispenser pan, this sensor shuts down (removes) AC power to the dispenser without the need for additional relays, circuitry, wiring, or an ATG System. The separate sensor control interface ensures intrinsically-safe integrity in a Class 1 Div. 1 Group D; Class 1 Zone 0 IIA hazardous area.	Sensor Matrix 
Form Number	847990-001		
Where Used (Typical)	<input checked="" type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank		Category
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> E-85 <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100		<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
Console Compatibility	Not Required		
Alarm Notification	Normal	Dispenser operational	
	Liquid detected	Remove power to the dispenser	
	Sensor out	Remove power to the dispenser	
Installation Kit	330020-012	Universal Sensor Mounting Kit (Sold separately)	
Specifications			
Operating Principle	Reed switch/float		
Product Activation Height	Gasoline: 1.71" (4.34cm), water: 1.62" (4.11cm)		
Operating Temp	+32 to +140°F (0 to +60°C) (freezing liquids)		
Dimensions	11.6" (29.4cm) high, 2.2" (5.6cm) dia.		
Miscellaneous / Notes	<ul style="list-style-type: none"> • Latching alarm circuitry ensures dispenser can't be restarted until hazardous condition has been corrected. • Connects directly to dispenser wiring. • Controls most manufacturer's dispensers. • Cable length: 5 feet (1.5m). • Control interface dimensions: 9.4" (23.9cm) high, 2.2" (5.6cm) dia. 		
Third Party Evaluation Links	http://nwgide.org/evals/veeder_root_p.html		
Product Link	Non-Discriminating Stand-Alone Dispenser Pan Sensor		
Warranty with System	1 Yr Parts & Labor		
Warranty (When purchased separately)	1 Yr Parts Only		
		Example Installation	
		 <p>Dispenser pan sensor should:</p> <ol style="list-style-type: none"> 1. Rest in the cup or the lowest point of the dispenser pan. 2. Be positioned so as to be removable by pulling the sensor straight up out of the pan. 3. Be mounted in a true vertical position. 	



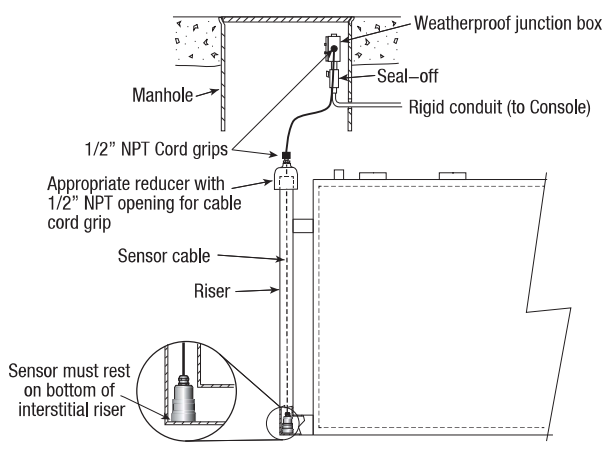
Sensor Description	Position Sensitive Sensor	This Sensor is installed in a containment sump or dispenser pan and will detect the presence of, and differentiate between, hydrocarbons and other liquids.	Sensor Matrix 			
Form Number	794380-323					
Where Used (Typical)	<input checked="" type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank		Category			
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> E-85 <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100		<input type="checkbox"/> Discriminating <input checked="" type="checkbox"/> Non-Discriminating <input checked="" type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic			
Console Compatibility (*International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Sensor in Normal State - No liquid detected				
	Sensor Out alarm	Sensor not resting on bottom of containment or sensor not communicating to ATG/Console				
	Fuel alarm	Liquid detected in containment area at approx. 1.5" (3.81cm)				
Installation Kit	330020-012	Universal Sensor Mounting Kit (Sold separately)				
Specifications			Example Installation			
Operating Principle	Product permeable, reed switch /float					
Product Activation Height	Liquid - Approx. 1.5" (3.81cm)					
Operating Temp	+32 to +140°F (0 to +60°C)					
Dimensions	12" (30.5cm) high, 2.2" (5.6cm) dia.					
Miscellaneous / Notes	Standard Cable Length: 12 Feet (3.66m).					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601Series) Consoles					
Product Link	Position Sensitive Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



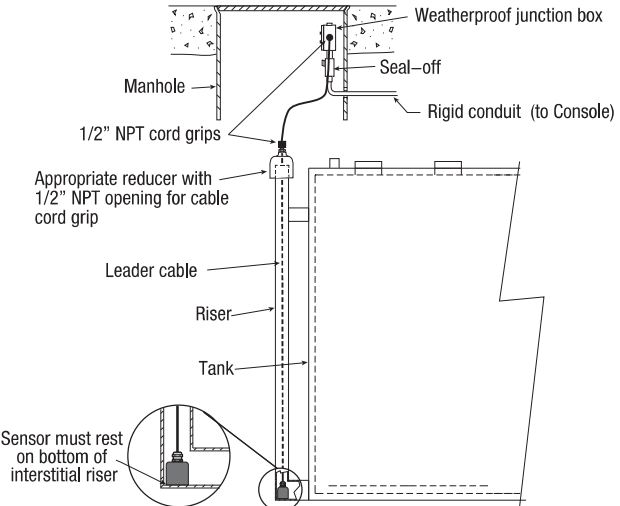
Sensor Description	Solid-State (Optical) Discriminating Interstitial Sensor for Double-Wall Fiberglass Tanks		The Discriminating Interstitial Sensor for double-wall fiberglass tanks uses solid-state liquid level sensing technology to detect liquid in the interstitial space of the tank.		Sensor Matrix 	
Form Number	794380-343					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input checked="" type="checkbox"/> Annular Space <input type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input checked="" type="checkbox"/> Convault Tank			Category		
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> E-85 <input checked="" type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input checked="" type="checkbox"/> Bio-Diesel 100			<input checked="" type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic		
Console Compatibility (*International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751				
TLS4c (8601 Series)		330020-751				
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						
Alarm Notification	Normal	Sensor in Normal State - No liquid detected				
	Liquid alarm	Water detected				
	Fuel alarm	Fuel or Fuel/Water detected				
	Sensor out	Sensor not communicating to ATG / Console				
Specifications			Example Installation			
Operating Principle	Optical sensor and conductivity					
Product Activation Height	Fuel or Water - <0.1" (0.25cm)					
Operating Temp	-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 25 feet (7.6m) Fits 4 to 10 foot [1.2 to 3m] I.D.fiberglass tanks					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Solid-State Discriminating Interstitial Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



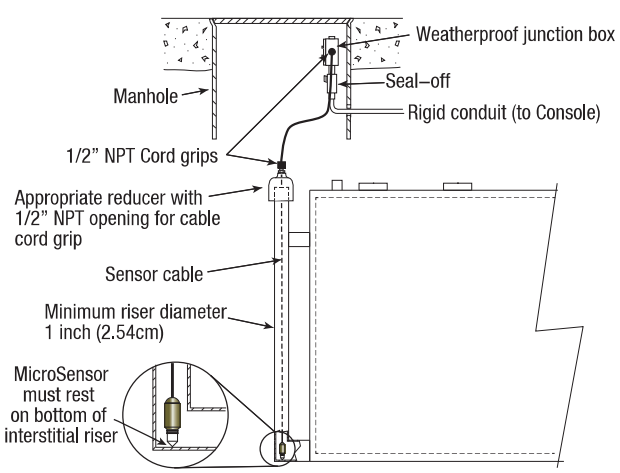
Sensor Description	Interstitial Sensor for Double-Wall Fiberglass Tanks	The Non-Discriminating Interstitial Sensor for double-wall fiberglass tanks detects the presence of liquid in the interstitial space of the tank.	Sensor Matrix 			
Form Number	794390-409					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Spill Containment <input type="checkbox"/> STP Sump <input checked="" type="checkbox"/> Convault Tank	<input checked="" type="checkbox"/> Annular Space <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Oil/Water Separator Tank	Category <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			
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input 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 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					
Console Compatibility (*International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Sensor in Normal State - No liquid detected				
	Liquid alarm	Liquid detected				
	Sensor out	Sensor not communicating to ATG / Console				
Specifications			Example Installation			
Operating Principle	Reed switch / float					
Product Activation Height	0.28" (0.71cm)					
Operating Temp	-4 to +140°F (-20 to +60°C)					
Dimensions	2.2" (5.6cm) length, 1.3" (3.3cm) width, 0.6" (1.5cm) thick					
Miscellaneous / Notes	Standard Cable 25 feet (7.6m) Fits 4 to 10 foot [1.2 to 3m] I.D.fiberglass tanks					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Non-Discriminating Interstitial Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



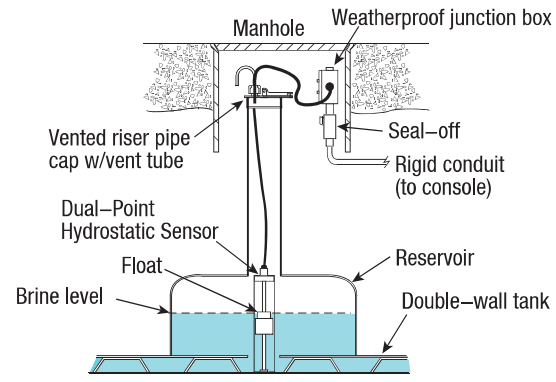
Sensor Description	Solid-State Alternative Ethanol Fluid Interstitial Sensor for Double-Wall Fiberglass Tanks	The interstitial sensor for double-wall fiberglass tanks with high alcohol product uses solid-state liquid level sensing technology to detect liquid in the interstitial space of the tank.	Sensor Matrix 			
Form Number	794380-345					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Spill Containment <input type="checkbox"/> STP Sump <input checked="" type="checkbox"/> Convault Tank <input checked="" type="checkbox"/> Annular Space <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Oil/Water Separator Tank	Category				
Fuel Compatibility	<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 checked="" type="checkbox"/> E-85 <input checked="" 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 checked="" type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil	<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				
						
Console Compatibility (*International Only*)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751				
TLS4c (8601 Series)		330020-751				
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						
Alarm Notification	Normal	Sensor in Normal State - No liquid detected				
	Fuel alarm	Liquid detected				
	Sensor out	Sensor not communicating to ATG / Console				
Specifications			Example Installation			
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 Temp	-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 25 feet (7.6m) Fits 4 to 10 foot [1.2 to 3m] I.D. fiberglass tanks					
Third Party Evaluation Links	TLS-350/TLS-450 Series Consoles TLS4 (8601 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					



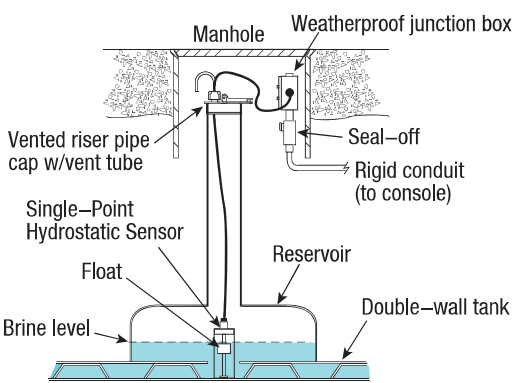
Sensor Description	Interstitial Sensor for Steel Tanks	The Interstitial Sensor for steel tanks is non-discriminating and detects the presence of liquid between the double walls of the tank.	Sensor Matrix 			
Form Number	794390-420 (16' cable); 794390-460 (30' cable)					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Spill Containment <input type="checkbox"/> STP Sump <input checked="" type="checkbox"/> Convault Tank	<input checked="" type="checkbox"/> Annular Space <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Oil/Water Separator Tank	Category			
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input 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 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	<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			
Console Compatibility (*International Only*)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Sensor in Normal State - No liquid detected				
	Fuel alarm	Liquid detected				
	Sensor out	Sensor not communicating to ATG / Console				
Installation Kit	312020-928	2" (50mm) Interstitial sensor riser cap kit (sold separately)				
Specifications			Example Installation			
Operating Principle	Reed switch / float					
Product Activation Height	1.4" (3.56cm)					
Operating Temp	-4 to +140°F (-20 to +60°C)					
Dimensions	2.5" (6.4cm) high, 1.5" (3.8cm) diameter					
Miscellaneous / Notes	794380-420 (cable 16 feet [4.9m]); 794380-460 (cable 30 feet [9.1m]); 312020-928 (2" [50mm] Riser cap and adapter kit)					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Interstitial Sensor for Steel Tanks					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



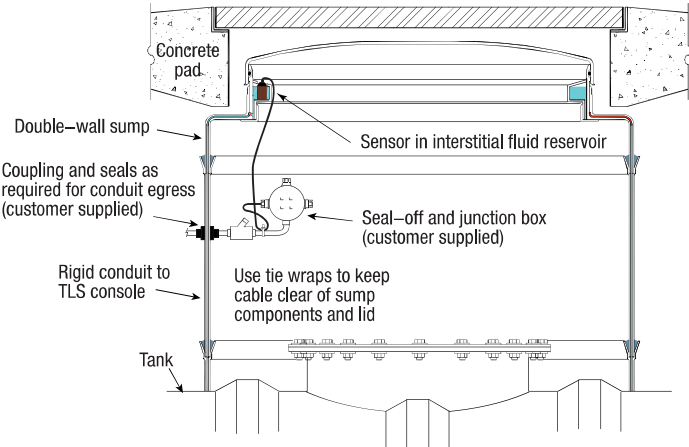
Sensor Description	Position Sensitive Interstitial Sensor for Steel Tanks	The sensor detects the presence of liquid in small containment areas (i.e., spill buckets) of double wall steel tanks. In addition, it provides an alarm when the sensor is not positioned correctly on the bottom of the interstitial space.	Sensor Matrix 			
Form Number	794380-333					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input checked="" type="checkbox"/> Spill Containment <input type="checkbox"/> STP Sump <input type="checkbox"/> Convault Tank	<input checked="" type="checkbox"/> Annular Space <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Oil/Water Separator Tank	Category			
Fuel Compatibility	<div style="display: flex; align-items: center;">  <div> <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 </div> <div> <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 </div> <div> <input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil </div> </div>					
Console Compatibility (*International Only)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Sensor in Normal State - No liquid detected				
	Fuel alarm	Not sitting correctly on bottom of interstitial space or liquid detected				
	Sensor out	Sensor not communicating to ATG / Console				
Installation Kit	312020-928	2" (50mm) Interstitial sensor riser cap kit (sold separately)				
Specifications			Example Installation			
Operating Principle	Reed Switch /Float					
Product Activation Height	1.4" (3.6cm)					
Operating Temp	-4 to +140°F (-20 to +60°C)					
Dimensions	3.5" (8.9cm) High, 1.75" (4.4cm) Diameter					
Miscellaneous / Notes	Standard Cable Length: 20 Feet (6.09m); 312020-928 (2" [50mm] Riser cap and adapter kit)					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Position Sensitive Interstitial Sensor for Steel Tanks					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



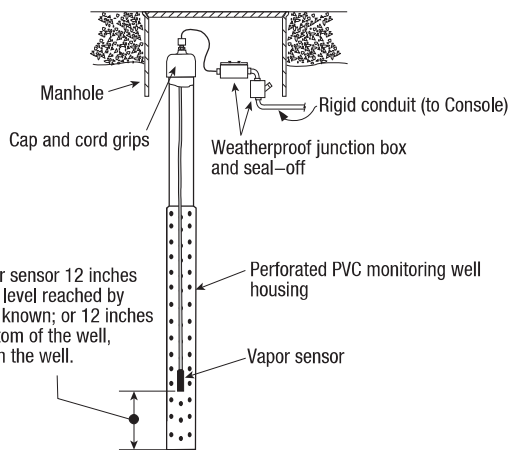
Sensor Description	Interstitial High Alcohol Sensor for Steel Tanks	The Interstitial Sensor for steel tanks with high alcohol product detects the presence of liquid between the double walls of the tank.	Sensor Matrix 			
Form Number	794380-430					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Spill Containment <input type="checkbox"/> STP Sump <input checked="" type="checkbox"/> Convault Tank	<input checked="" type="checkbox"/> Annular Space <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Oil/Water Separator Tank	Category			
Fuel Compatibility	<div style="display: flex; align-items: center;">  <div> <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 </div> <div> <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85 <input checked="" type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Bio-Diesel 100 </div> <div> <input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil </div> </div>					
Console Compatibility (*International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Sensor in Normal State - No liquid detected				
	Fuel alarm	Water or Fuel detected				
	Sensor out	Sensor not communicating to ATG / Console				
Installation Kit	312020-928	2" (50mm) Interstitial sensor riser cap kit (sold separately)				
Specifications			Example Installation			
Operating Principle	Reed switch / float		 <p>The diagram illustrates the installation of the Interstitial Sensor in a steel tank. A weatherproof junction box is mounted on the tank's exterior. A seal-off is used to secure the connection. Rigid conduit leads from the junction box to the console. 1/2" NPT cord grips are used to secure the conduit. A leader cable runs from the junction box down the riser to the sensor at the bottom of the interstitial space. The sensor must rest on the bottom of the interstitial riser. Labels include: Weatherproof junction box, Seal-off, Rigid conduit (to Console), 1/2" NPT cord grips, Appropriate reducer with 1/2" NPT opening for cable cord grip, Leader cable, Riser, Tank, and Sensor must rest on bottom of interstitial riser.</p>			
Product Activation Height	1.1" (2.8cm)					
Operating Temp	-4 to +140°F (-20 to +60°C)					
Dimensions	2.5" (6.4cm) high, 1.5" (3.8cm) diameter					
Miscellaneous / Notes	Standard cable 15 feet [4.5m] cable); 312020-928 (2" [50mm] Riser cap and adapter kit)					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Interstitial High Alcohol Sensor for Steel Tanks					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					



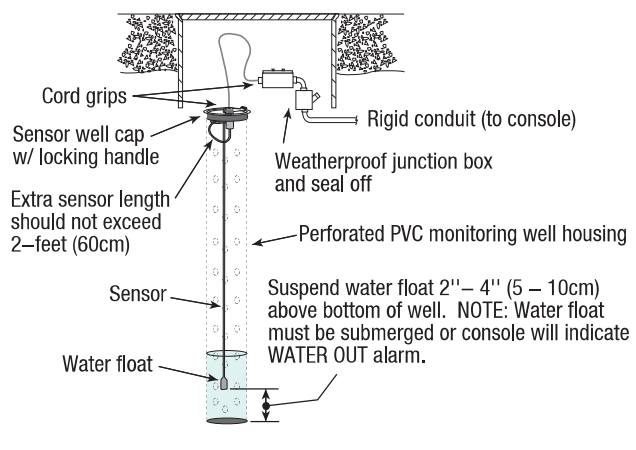
Sensor Description	MicroSensor	The non-discriminating small, easy to install solid-state MicroSensor is designed detect liquid in the interstitial space of a steel tank or a fill riser containment.				Sensor Matrix 		
Form Number	794380-344							
Where Used (Typical) <div><div><input type="checkbox"/> Dispenser Pan</div><div><input type="checkbox"/> Spill Containment</div><div><input type="checkbox"/> STP Sump</div><div><input checked="" type="checkbox"/> Convault Tank</div><div><input checked="" type="checkbox"/> Annular Space</div><div><input type="checkbox"/> Monitoring Well</div><div><input type="checkbox"/> Oil/Water Separator Tank</div></div>			Category <div><div><input type="checkbox"/> Discriminating</div><div><input checked="" type="checkbox"/> Non-Discriminating</div><div><input type="checkbox"/> Position Sensitive</div><div><input type="checkbox"/> Level Sensing</div><div><input type="checkbox"/> Static Testing</div><div><input type="checkbox"/> Hydrostatic</div></div>					
Fuel Compatibility <div></div>			<div><div><input checked="" type="checkbox"/> Gas</div><div><input checked="" type="checkbox"/> Diesel</div><div><input checked="" type="checkbox"/> Kerosene</div><div><input checked="" type="checkbox"/> Jet Fuel</div><div><input checked="" type="checkbox"/> Aviation Gas</div><div><input checked="" type="checkbox"/> E-15</div><div><input checked="" type="checkbox"/> E-85</div><div><input checked="" type="checkbox"/> E-100</div><div><input checked="" type="checkbox"/> Bio-Diesel 20</div><div><input checked="" type="checkbox"/> Bio-Diesel 100</div><div><input checked="" type="checkbox"/> Green Diesel</div><div><input checked="" type="checkbox"/> DEF</div><div><input checked="" type="checkbox"/> Waste Oil</div><div><input checked="" type="checkbox"/> Motor Oil</div></div>					
Console Compatibility (*International Only ¹)		Recommended Min. Console Software	Sensor Interface Modules					
			Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability	
		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	332812-001				
		¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
		TLS4i (8601 Series)		330020-750				
		¹ TLS4B (8601 Series)		330020-751			6	
		TLS4c (8601 Series)		330020-751				
		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								
Alarm Notification		Normal	Sensor in Normal State - No liquid detected					
		Fuel alarm	Liquid detected at a minimum of 1" (2.54cm)					
		Sensor out	Sensor not communicating to ATG / Console					
Installation Kit		312020-928	2" Cap Adapter Kit (Sold separately)					
Specifications				Example Installation				
Operating Principle		Optical						
Product Activation Height		1" (2.54cm)						
Operating Temp		-40 to +122°F (-40 to +50°C)						
Dimensions		Dia. 0.63" (16mm), Length 2" (51mm)						
Miscellaneous / Notes		Standard Cable Length: 25 Feet (7.6m); 312020-928 (2" [50mm] Riser cap and Adapter kit)						
Third Party Evaluation Links		TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles						
Product Link		MicroSensor						
Warranty with System		1 Yr Parts & Labor						
Warranty (When purchased separately)		1 Yr Parts Only						



Sensor Description	Dual-Point Hydrostatic Reservoir Sensor (Brine Filled Double Wall Tank Sensor)	The Hydrostatic Reservoir Sensor accurately detects fluid level change in the reservoir and interstice of a double wall storage tank. The Dual-Point version is ideal for high groundwater areas, and can differentiate between a high level alarm condition and a low level alarm condition. If an inner-wall leak occurs, the brine seeps into the tank triggering a low level alarm, if an outer wall leak occurs, fluid seeps into the interstice triggering a high level alarm.	Sensor Matrix 			
Form Number	794380-303					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Spill Containment <input type="checkbox"/> STP Sump <input checked="" type="checkbox"/> Convault Tank	<input checked="" type="checkbox"/> Annular Space <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Oil/Water Separator Tank	Category			
Fuel Compatibility	<div style="display: flex; align-items: center;">  <div> <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 </div> <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> E-85¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100 </div> <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Motor Oil </div> </div> <p>¹Single Use Only (Test per Sensor Operability Guide in E-10 or less)</p>					
Console Compatibility (*International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329958-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Float is in the Center position (correct amount of brine in reservoir)				
	Low liquid	Brine drops below 1.2" (3cm)				
	High liquid	Brine rises above 13.13" (33.4cm)				
	Sensor out	Sensor not communicating to ATG / Console				
Specifications			Example Installation			
Operating Principle	Reed Switch /Float					
Product Activation Height	Low 1.2" (3cm), High 13.13" (33.4cm)					
Operating Temp	-13 to +122°F (-25 to +50°C)					
Dimensions	17.3" (43.9cm) High, 2.5" (6.4cm) Dia.					
Miscellaneous / Notes	<ul style="list-style-type: none"> Standard Cable Length: 12 ft (3.65m) Vented riser cap assembly included Reservoir solutions: Up to 50% ethylene glycol in water; up to 50% propylene glycol in water; salt brine solution of up to 30% CaCl. 					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Dual-Point Hydrostatic Reservoir Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					

Sensor Description	Single-Point Hydrostatic Reservoir Sensor (Brine Filled Double Wall Tank Sensor)	The Hydrostatic Reservoir Sensor accurately detects fluid level change in the reservoir and interstice of a double wall storage tank. The Single-Point version can be used in low groundwater locations. If an inner-wall leak occurs, the brine seeps into the tank triggering a fuel alarm, or if the outer wall leaks, the brine seeps out of the tank interstice triggering a fuel alarm.	Sensor Matrix 			
Form Number	794380-301					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Spill Containment <input type="checkbox"/> STP Sump <input checked="" type="checkbox"/> Convault Tank <input checked="" type="checkbox"/> Annular Space <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Oil/Water Separator Tank	Category	<input type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input checked="" type="checkbox"/> Hydrostatic			
Fuel Compatibility	 <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 checked="" type="checkbox"/> E-85 ¹ <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Bio-Diesel 100 <input checked="" type="checkbox"/> Green Diesel <input type="checkbox"/> DEF <input type="checkbox"/> Waste Oil <input type="checkbox"/> Motor Oil	¹ Single Use Only (Test per Sensor Operability Guide in E-10 or less)				
Console Compatibility (*International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329958-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Float is in the UP position (correct amount of brine in reservoir)				
	Fuel alarm	Brine level below 1.74" (4.4cm)				
	Sensor out	Sensor not communicating to ATG / Console				
Specifications			Example Installation			
Operating Principle	Reed Switch /Float					
Product Activation Height	1.75" (4.4cm)					
Operating Temp	-13 to +135°F (-25 to +57°C)					
Dimensions	6" (15cm) high, 2.5" (6.4cm) dia.					
Miscellaneous / Notes	<ul style="list-style-type: none"> Standard Cable Length: 12 ft (3.65m) Vented riser cap assembly included Reservoir solutions: Up to 50% ethylene glycol in water; up to 50% propylene glycol in water; salt brine solution of up to 30% CaCl 					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Single-Point Hydrostatic Reservoir Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					

Sensor Description	Single-Point Mini-Hydrostatic Sensor for Double Wall Sumps			The Single-Point Mini-Hydrostatic sensor accurately detects fluid level change in the interstice reservoir of a double-wall sump. If a leak occurs in the sump interstice, the brine seeps out of the reservoir triggering a low level alarm.			Sensor Matrix 
Form Number	794380-304						
Where Used (Typical)	<div><div><input type="checkbox"/> Dispenser Pan</div><div><input type="checkbox"/> Spill Containment</div><div><input type="checkbox"/> STP Sump</div><div><input type="checkbox"/> Convault Tank</div></div> <div><div><input checked="" type="checkbox"/> Annular Space</div><div><input type="checkbox"/> Monitoring Well</div><div><input type="checkbox"/> Oil/Water Separator Tank</div></div>				Category <div><div><input type="checkbox"/> Discriminating</div><div><input type="checkbox"/> Non-Discriminating</div><div><input type="checkbox"/> Position Sensitive</div><div><input type="checkbox"/> Level Sensing</div><div><input type="checkbox"/> Static Testing</div><div><input checked="" type="checkbox"/> Hydrostatic</div></div>		
Fuel Compatibility	<div><div></div><div><div><input checked="" type="checkbox"/> Gas</div><div><input checked="" type="checkbox"/> Diesel</div><div><input checked="" type="checkbox"/> Kerosene</div><div><input checked="" type="checkbox"/> Jet Fuel</div><div><input checked="" type="checkbox"/> Aviation Gas</div></div><div><div><input checked="" type="checkbox"/> E-15</div><div><input checked="" type="checkbox"/> E-85</div><div><input checked="" type="checkbox"/> E-100</div><div><input checked="" type="checkbox"/> Bio-Diesel 20</div><div><input checked="" type="checkbox"/> Bio-Diesel 100</div></div><div><div><input checked="" type="checkbox"/> Green Diesel</div><div><input type="checkbox"/> DEF</div><div><input checked="" type="checkbox"/> Waste Oil</div><div><input checked="" type="checkbox"/> Motor Oil</div></div></div>						
Console Compatibility (*International Only ¹)	Recommended Min. Console Software	Sensor Interface Modules					
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability	
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	332812-001					
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included	
TLS4i (8601 Series)		330020-750					
¹ TLS4B (8601 Series)		330020-751			6		
TLS4c (8601 Series)		330020-751					
TLS-350/R/PLUS	124/324 or Higher	329958-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately	
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module	1	4	Sold Separately	
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module		8	Included	
TLS-300C		330513-001	2 Probe / 8 Sensor Options				
Alarm Notification		Normal	Float is in UP position (correct amount of brine in reservoir)				
	Fuel alarm	Float is in DOWN position (low brine level in reservoir)					
	Sensor out	Sensor not communicating to ATG / Console					
Specifications			Example Installation				
Operating Principle	Reed Switch /Float						
Product Activation Height	0.79" (2cm)						
Operating Temp	-13 to +122°F (-25 to +50°C)						
Dimensions	2.5" (6.4cm) high, 1.5" (3.8cm) dia.						
Miscellaneous / Notes	Standard Cable Length: 8 Feet (2.43m); up to 50% ethylene glycol in water; up to 50% propylene glycol in water; salt brine solution of up to 30% CaCl.						
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles						
Product Link	Single-Point Mini-Hydrostatic Sensor						
Warranty with System	1 Yr Parts & Labor						
	1 Yr Parts Only						
Warranty (When purchased separately)							

Sensor Description	Vapor Sensor	The Vapor Sensor detects hydrocarbon vapor exceeding the programmed threshold limit in the monitoring well.		Sensor Matrix 		
Form Number	794390-700					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input type="checkbox"/> Spill Containment <input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank			Category		
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input type="checkbox"/> Green Diesel <input type="checkbox"/> Diesel <input type="checkbox"/> E-85 <input type="checkbox"/> DEF <input type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input type="checkbox"/> Bio-Diesel 20 <input type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100			<input type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic <input checked="" type="checkbox"/> Vapor <input type="checkbox"/> Groundwater <input type="checkbox"/> Oil/Water Separator		
Console Compatibility (*International Only*)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	8	Sold Separately
TLS-450	4A or Higher	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	6	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			4	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329357-001	Vapor Sensor Interface Module	Up to 8	5	Sold Separately
TLS-350J	N/A					
TLS-300i						
TLS-300C						
Alarm Notification	Short alarm	A short has occurred in the sensor wiring or in the sensor.				
	Water alarm	The vapor sensor is immersed in water and is incapable of detecting fuel vapors.				
	Fuel alarm	Fuel vapors are present in the area being monitored by the sensor.				
	Sensor Out alarm	Sensor setup was performed incorrectly; it is disconnected; or, it is not functioning properly.				
Installation Kit	312020-939	4-inch (100mm) cap and adapter kit (Sold separately)				
Specifications			Example Installation			
Operating Principle	Adsistor		 <p>Manhole</p> <p>Cap and cord grips</p> <p>Rigid conduit (to Console)</p> <p>Weatherproof junction box and seal-off</p> <p>Perforated PVC monitoring well housing</p> <p>Vapor sensor</p> <p>Suspend vapor sensor 12 inches above highest level reached by water table, if known; or 12 inches above the bottom of the well, or any water in the well.</p>			
Product Activation Height	Gasoline vapor >500 ppm					
Operating Temp	-4 to +140°F (-20 to +60°C)					
Dimensions (Sensor)	4.9" (12.4cm) long, 1.1" (2.8cm) dia.					
Miscellaneous / Notes	Standard Cable 18 feet (5.5m)					
Third Party Evaluation	TLS-350/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Vapor Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					

Sensor Description	Groundwater Sensor	The Groundwater Sensor detects free hydrocarbons in the C5 to C16 range on the water table in up to 20 feet deep monitoring wells.	Sensor Matrix 			
Form Number	794380-621 (7 - 10 foot [2 - 3m] wells); 794380-622 (10 - 15 foot [3 - 4.5m] wells); 794380-624 (15 - 20 foot [4.5 - 6m] wells)					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input type="checkbox"/> Spill Containment <input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> STP Sump <input type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank		Category			
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input checked="" type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> E-85 <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100		<input type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Vapor <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Oil/Water Separator			
Console Compatibility (*International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	8	Sold Separately
TLS-450	4A or Higher	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	6	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			4	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329399-001	Groundwater Sensor Interface Module	Up to 8	5	Sold Separately
TLS-350J	N/A					
TLS-300i						
TLS-300C						
Alarm Notification	Normal	Sensor in water -no hydrocarbons detected.				
	Water out	Sensor not in water - well dry				
	Fuel alarm	Permeable material saturated with Fuel				
	Sensor out	Sensor not communicating to ATG / Console				
Specifications			Example Installation			
Operating Principle	Electrical conductivity		 <p>The diagram illustrates the installation of the Groundwater Sensor. It shows a vertical well with a sensor at the bottom. A water float is suspended above the sensor. The sensor is connected to a cord that goes up the well and out of the top. The cord is secured with cord grips. A rigid conduit leads from the top of the well to a weatherproof junction box and seal off. The sensor is housed in a perforated PVC monitoring well housing. The water float is suspended 2"-4" (5-10cm) above the bottom of the well. A note states: 'Suspend water float 2"-4" (5-10cm) above bottom of well. NOTE: Water float must be submerged or console will indicate WATER OUT alarm.'</p>			
Product Activation Height	0.02" (0.5mm)					
Operating Temp	+32 to +104°F (0 to +40°C)					
Dimensions (Water Float)	4.9" (12.4cm) long, 1.1" (2.8cm) dia.					
Miscellaneous / Notes	Locking cap included; cable length 64" (162.6cm)					
Third Party Evaluation Links	TLS-3XX/TLS-450 Series Consoles TLS4 (8601 Series) Consoles					
Product Link	Groundwater Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					

Sensor Description	Oil/Water Separator Sensor (OWSS)	The Oil Water Separator Sensor (OWSS) allows you to utilize your existing Veeder-Root system for your Oil Water Separator tank. The OWSS facilitates operation of the tank by monitoring product thresholds, and will activate alarms on the TLS monitoring system when tank contents exceed a predetermined threshold. The probe also provides the conditions for these alarms and a full alarm history.				
Form Number	794690-XXX					
Where Used (Typical)	<input type="checkbox"/> Dispenser Pan <input type="checkbox"/> Annular Space <input type="checkbox"/> Spill Containment <input type="checkbox"/> Monitoring Well <input type="checkbox"/> STP Sump <input checked="" type="checkbox"/> Oil/Water Separator Tank <input type="checkbox"/> Convault Tank			Category		
Fuel Compatibility	 <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> E-15 <input type="checkbox"/> Green Diesel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> E-85 <input type="checkbox"/> DEF <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> E-100 <input checked="" type="checkbox"/> Waste Oil <input checked="" type="checkbox"/> Jet Fuel <input checked="" type="checkbox"/> Bio-Diesel 20 <input checked="" type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Aviation Gas <input type="checkbox"/> Bio-Diesel 100			<input type="checkbox"/> Discriminating <input type="checkbox"/> Non-Discriminating <input type="checkbox"/> Position Sensitive <input type="checkbox"/> Level Sensing <input type="checkbox"/> Static Testing <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Vapor <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Oil/Water Separator		
Console Compatibility (International Only¹)	Recommended Min. Console Software	Sensor Interface Modules				
		Module Form #	Module Description	# Of Modules Per Console	# Of Sensor Inputs Per Module	Availability
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	332812-001				
¹ TLS4 (8601 Series)	6A or Higher	330020-750	Universal Sensor Input Output Module (USIOM-AC)	1	12	Included
TLS4i (8601 Series)		330020-750				
¹ TLS4B (8601 Series)		330020-751			6	
TLS4c (8601 Series)		330020-751				
TLS-350/R/PLUS	124/324 or Higher	329358-001	Interstitial Sensor Interface Module	Up to 8	8	Sold Separately
TLS-350J		329356-003	4 Probe / 4 Sensor Interface Module			
TLS-300i		330230-001	4 Probe / 8 Sensor Interface Module	1	8	Included
TLS-300C		330513-001	2 Probe / 8 Sensor Options			
Alarm Notification	Normal	Tank is properly setup with liquid				
	Liquid warning	Oil is present in tank				
	Liquid alarm	Oil has reached its maximum volume, remove from tank				
	Sensor out	Sensor not communicating to ATG / Console				
Specifications						
Operating Principle	Reed switch / float					
Product Activation Height	Custom-Based on Tank Configuration					
Operating Temp	0 to +140°F (0 to +60°C)					
Dimensions	Custom-Based on Tank Configuration					
Miscellaneous / Notes	Standard Cable Length: 12 Feet- See Appendix B in this manual for sensor sizing					
Product Link	Oil Water Separator Sensor					
Warranty with System	1 Yr Parts & Labor					
Warranty (When purchased separately)	1 Yr Parts Only					

Appendix A - Sensor Type Programming Table

The table below is helpful when selecting Sensor Type (for TLS-3XX Series consoles) or Sensor Model (for TLS4/8601 and TLS-450 and TLS-450PLUS consoles) during sensor setup.

Sensor Type Programming Table for TLS Consoles

Sensor	Form Number	Sensor Category (Location)	TLS-3XX Series Sensor Type	TLS4/8601 Series TLS-450 and TLS-450PLUS Sensor Model
Discriminating Dispenser Pan and Sump Sensors - Standard	794380-322 (DPS), 794380-352 (CSS)	Sump/Pan	Liquid Sensor Setup: Sensor Type - Dual Float Discriminating	Device Setup Liquid Sensor: Model - Dual Float Discriminating
Discriminating Dispenser Pan and Sump Sensors - Optical	794380-320 (DPO), 794380-350 (CSO)	Sump/Pan	3-Wire C.L. Setup: Sensor Mode - Standard	Device Setup Type B Sensor: Model - Ultra/Z-1 (Standard)
Mag Sump Sensor	857080-XXX	Sump/Pan	Smart Sensor Setup: Sensor Category- Mag Sensor	Device Setup MAG Sensor
Solid-State Dispenser Pan and Containment Sump	794380-321 (DP); 794380-351 (CS)	Sump/Pan	2-Wire C.L. Setup: Sensor Type - Ultra 2	Device Setup Type A Sensor: Model - Ultra 2
Piping Sump	794380-208	Sump/Pan	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Position-Sensitive Sensor High Alcohol Compatible!	794380-323	Sump/Pan	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Discriminating Interstitial Sensor for Double-Wall Fiberglass Tanks	794380-343	Annular Space	2-Wire C.L. Setup: Sensor Type - Discrim Interstitial	Device Setup Type A Sensor: Model - Discrim. Interstitial
Interstitial Sensors for Double-Wall Fiberglass Tanks	794390-409	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Interstitial High Alcohol Sensor for Double-Wall Fiberglass Tanks High Alcohol Compatible!	794380-345	Annular Space	2-Wire C.L. Setup: Sensor Type - Ultra 2	Device Setup Type A Sensor: Model - Ultra 2
Interstitial Sensors for Steel Tanks	794390-4X0	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Position Sensitive Interstitial Sensor for Steel Tanks High Alcohol Compatible!	794380-333	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Interstitial High Alcohol Sensors for Steel Tanks High Alcohol Compatible!	794380-430	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
MicroSensor High Alcohol Compatible!	794380-344	Annular Space	2-Wire C.L. Setup: Sensor Type - Ultra 2	Device Setup Type A Sensor: Model - Ultra 2
Hydrostatic Reservoir	794380-301 (1 float)	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
	794380-303 (1 float)	Annular Space	Liquid Sensor Setup: Sensor Type - Dual Point Hydrostatic	Device Setup Liquid Sensor: Model - Dual Point Hydrostatic
Single-Point Mini Hydrostatic Sensor for Double Wall Sumps	794380-304	Annular Space	Liquid Sensor Setup: Sensor Type - Tri-State Liquid	Device Setup Liquid Sensor: Model - Tri-State
Vapor	794390-700	Monitor Well	Vapor Sensor Setup	Device Setup Vapor Sensor
Groundwater	794380-62X	Monitor Well	Groundwater Sensor Setup	Device Setup Groundwater Sensor
Oil/Water Separator	794690-XXX	Oil/Water Separator Tank	Liquid Sensor Setup: Sensor Type - Dual Float Discriminating	Device Setup Liquid Sensor: Model -Dual Float Discriminating