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Concerned Regulatory Agency

Re: Veeder-Root Compatibility with E85

To whom it may concern:

Veeder-Root TLS branded automatic tank gauging products have UL listings for product safety. The wetted component materials used with the below listed products are deemed by Veeder-Root to be compatible with ethanol 85 applications.

<u>VR Part Number</u>	<u>Description</u>
848480-003	Pressurized Line Leak Detector
846391-4XX, 5XX, 6XX	Mag Plus Probes for Alternative Fluids without water detection
846400-004,304,104	Mag Float Kit (5" cable) for Alternative Fluids 4", 3" & 2" floats
846400-014,314,114	Mag Float Kit (10" cable) for Alternative Fluids 4", 3" & 2" floats
846400-024,324,124	Mag Float Kit (20" cable) for Alternative Fluids 4", 3" & 2" floats
794380-323	Position Sensitive Pan/Sump Sensor
794380-344	MicroSensor
794380-345	Interstitial Solid State Sensor for Fiberglass Tanks
794380-430	Interstitial Sensor for Steel Tanks

The following sensor is exposed to Brine and is not of concern in an E85 application.

794380-301 Hydrostatic Sensor

Please contact Veeder-Root Technical Support at 1-800-323-1799 with further questions.

Regards,

Bob Moss
VP Engineering

Sensor Application Matrix

Sensor Description	Form #	Page #	Where Used							Category					Fuel Compatibility													
			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	ASTM D7467	ASTM D6751	ASTM D975	Renewable (Green) Diesel	Diesel Exhaust Fuel (DEF)
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	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	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	X
Interstitial for Steel Tanks	794390-4X0	15		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	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 ¹	X ¹	X	X	X	X	X	X	X
Single-Point Hydrostatic Sensor	794380-301	20					X							X	X	X	X	X	X	X ¹	X ¹	X	X	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)



ELECTRONIC PRESSURIZED LINE LEAK DETECTION SYSTEM



Patented measurement technology

The Veeder-Root Electronic Pressurized Line Leak Detection system can be used in a variety of pressurized line applications. Our patented technology performs leak test at full pump pressure for 0.1 gph precision and a pressure decay test to meet the US EPA's continuous 3.0 gph gross test requirement. When partnered with our TLS-450PLUS Automatic Tank Gauge, large volume customers can now monitor lines that exceed 1100 gallons.





Part Number	Description	Supported Console
859080-001	Digital Pressurized Line Leak Detector (DPLLD) without Swiftcheck Valve	TLS-450PLUS
859080-002	Digital Pressurized Line Leak Detector (DPLLD) with Swiftcheck Valve	TLS-450PLUS
332812-001	16 Input Universal Sensor Module	TLS-450PLUS
332813-001	5 Input and Output Interface Module (STP Control)	TLS-450PLUS

Key Features

- Proven pressure transducer technology
- No restriction of fuel flow
- Utilizes Swift Check Valve on early generation Red Jacket Submersible Pumps
- Test lines at full pressure for quick and accurate result
- Standard 3.0 gph, Optional 0.2 and 0.1 gph testing
- Not impacted by thermal contraction of fuel
- Installs without breaking piping or adding a new sump
- Supports a wide-range of pump and pipe types
- Several options based on TLS system
- Pressure Sensor constructed with Stainless Steel to meet the challenges of a highly corrosive environment

Specifications



- Leaded Gasoline
- 5% Methanol
- Up to 100% Ethanol
- 15% MTBE
- Diesel
- Biodiesel (Up to B100)
- Kerosene
- Jet Fuel
- Aviation Gasoline

Line Flow Rate	120 GPM Max w/ Swiftcheck Valve
Operating Range	0 – 70 PSI
Proof Pressure	200 PSI
Maximum Vertical Pipeline Height Above Transducer	11 Feet
Minimum Pump Output Pressure	23 PSI

Documents

- ↓ [Line Leak Application Guide \(577013-465\)](#)
- ↓ [Exterior Dimensions \ Digital PLLD Sensor \(333526-001\)](#)
- ↓ [PLLD & WPLLD Troubleshooting Manual \(577013-344\)](#)
- ↓ [PLLD Site Prep and Installation Manual \(576013-902\)](#)
- ↓ [WPLLD Site Prep and Installation Manual \(576013-923\)](#)



TLS-450PLUS Automatic Tank Gauge

The TLS-450PLUS automatic tank gauge provides the most comprehensive fuel site data for advanced fuel asset management.

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