



**Veeder-Root**  
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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

|                                                               |            |        | 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 <sup>1</sup> |                | X             |                | X                        |                           | X         | X         |
| CSS Standard Containment Sump                                 | 794380-352 | 3      |               | X                 | X        |               |               |                 |                          | X              |                    |                    |               |                |                    | X             | X      | X        | X        | X            | X    | X <sup>1</sup> |                | X             |                | X                        |                           | X         | X         |
| DPO Optical Dispenser Pan                                     | 794380-320 | 4      | X             | X                 |          |               |               |                 |                          | X              |                    |                    |               |                |                    | X             | X      | X        | X        | X            | X    | X <sup>1</sup> |                | X             |                | X                        |                           | X         | X         |
| CSO Optical Containment Sump                                  | 794380-350 | 5      |               | X                 | X        |               |               |                 |                          | X              |                    |                    |               |                |                    | X             | X      | X        | X        | X            | X    | X <sup>1</sup> |                | 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                         | 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 <sup>2</sup> | 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 <sup>1</sup> | X <sup>1</sup> | X             |                | X                        |                           | X         | X         |
| Single-Point Hydrostatic Sensor                               | 794380-301 | 20     |               |                   |          |               | X             |                 |                          |                |                    |                    |               |                | X                  | X             | X      | X        | X        | X            | X    | X <sup>1</sup> | X <sup>1</sup> | 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         |

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

<sup>2</sup>Small 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 \(576013-902\)](#)
- ↓ [WPPLD 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.

**Learn More** >





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[Learn More >](#)

## REQUEST FOR QUOTE

**First name\***

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**Last name\***

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**Company name**

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**Email\***

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**Phone number**

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**Country\***

Please Select

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**Product Interest**

☐ Automatic Tank Gauges

☐ Tank Gauge Sensors or  
Probes

☐ Submersible Turbine  
Pumps

☐ DEF Submersible Turbine  
Pumps

☐ Electronic Meter Registers

☐ Mechanical Meter  
Registers

☐ Vapor Recovery / ISD /  
Carbon Canister



**SUBMIT**

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