VEEDER-ROOT

Sensor Description	**Groundwater Sensor**	The Groundwater Sensor detects free hydrocarbons in the C5 to C16 range on the water table in up to 20ft (6.1m) deep monitoring wells.

Part Number	**794380-621 for 7-10ft (2-3m) wells; 794380-622 for 10-5ft (3-4.5m) wells; 794380-624 for 15-20 ft (4.5-6m) wells**

Category	☐ Discriminating ☐ Non-Discriminating ☐ Position Sensitive ☐ Level Sensing	☐ Static Testing ☐ Hydrostatic ☐ Vapor ☑ Groundwater ☐ Oil/Water Separator

Fuel Compatibility	☑ Gas ☑ Diesel ☑ Kerosene ☑ Jet Fuel ☑ Aviation Gas	☑ E-15 ☐ E-85 ☐ E-100 ☑ Bio-Diesel 20 ☐ Bio-Diesel 100	☑ Green Diesel ☐ DEF ☑ Waste Oil ☑ Motor Oil

Console Compatibility (*International Only[1])	Recommended Min. Console Software	Sensor Interface Modules			
		Module Part #	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					
TLS4 (8601 Series)[1]	6A or Higher	330020-750	Universal Sensor Input Out-put Module (USIOM-AC)	1	6	Included
TLS4i (8601 Series)						
TLS4B (8601 Series)[1]		330020-751			4	
TLS4c (8601 Series)						
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	
Product Activation Height	0.02" (0.5mm)	
Operating Temperature	+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	

Cord grips
Sensor well cap w/ locking handle
Rigid conduit to console
Weatherproof junction box and seal off
Extra sensor length should not exceed 2ft (60cm)
Perforated PVC monitoring well housing
Sensor
Water float
Suspend water float 2"- 4" (5 - 10cm) above bottom of well. NOTE: Water float must be submerged or console will indicate WATER OUT alarm.

Where Used (Typical)

☐ Dispenser Pan
☐ Spill Containment
☐ STP Sump
☐ Convault Tank
☐ Annular Space
☑ Monitoring Well
☐ Oil/Water Separator Tank

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Example Illustrations

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

Third Party Evaluations

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

http://www.nwglde.org