
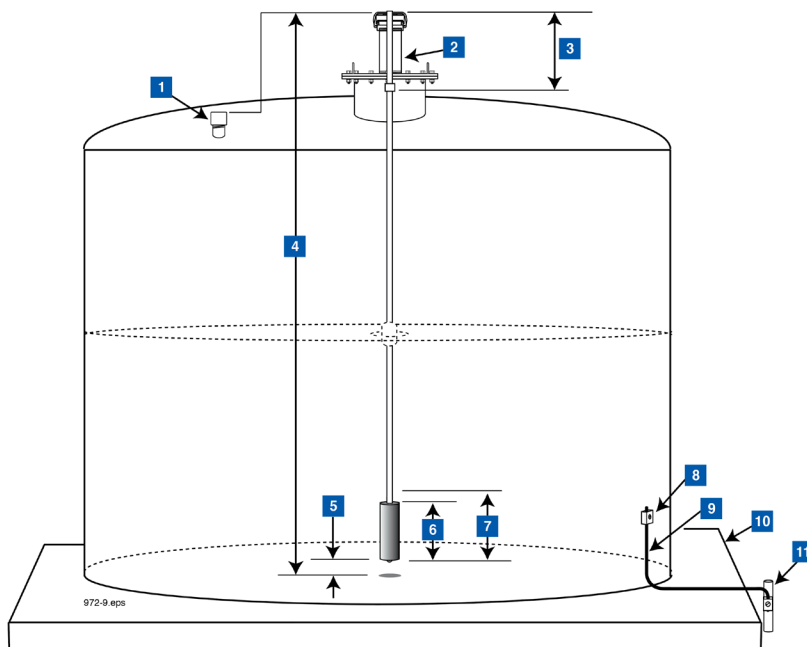


<b>Probe Description &amp; Product Application</b>	Mag-FLEX In-Tank Probe for Monitoring <b>Gas &amp; Diesel Products</b> in both USTs and ASTs	
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Specific Products Monitored / Product Compatibility	Part # & Description	Approved Products	Monitoring Functionality Options												
	<ol style="list-style-type: none"> <li>1. 889590-4XX Mag-FLEX probe with gasoline &amp; water floats, wired, UL/cUL</li> <li>2. 889590-5XX Mag-FLEX probe with diesel &amp; water floats, wired, UL/cUL</li> <li>3. 889590-6XX Mag-FLEX probe with no water float, wired, UL/cUL</li> <li>4. 889590-1XX Mag-FLEX probe with gasoline &amp; water floats, wireless, UL/cUL</li> <li>5. 889590-2XX Mag-FLEX probe with diesel &amp; water floats, wireless, UL/cUL</li> <li>6. 889590-3XX Mag-FLEX probe with no water float, wireless, UL/cUL</li> </ol>	<table border="1"> <tr><td>Gasohol (&lt;=15% Ethanol)</td></tr> <tr><td>Gasoline with &lt;=7% Methanol and 8% TBA</td></tr> <tr><td>Gasoline with &lt;=15% MTBE</td></tr> <tr><td>Gasoline with &lt;=17% TAME</td></tr> <tr><td>Leaded Gasoline</td></tr> <tr><td>Mineral Spirits</td></tr> <tr><td>Premium Unleaded Gasoline</td></tr> <tr><td>Regular Unleaded Gasoline</td></tr> <tr><td>Gasoline with &lt;=15% ETBE</td></tr> <tr><td>Gasoline with &lt;=12% TBA</td></tr> <tr><td>Diesel (Fuel Oil #2)</td></tr> <tr><td>Kerosene (Fuel Oil #1)</td></tr> <tr><td>Bio Diesel (Low Density)</td></tr> </table>	Gasohol (<=15% Ethanol)	Gasoline with <=7% Methanol and 8% TBA	Gasoline with <=15% MTBE	Gasoline with <=17% TAME	Leaded Gasoline	Mineral Spirits	Premium Unleaded Gasoline	Regular Unleaded Gasoline	Gasoline with <=15% ETBE	Gasoline with <=12% TBA	Diesel (Fuel Oil #2)	Kerosene (Fuel Oil #1)	Bio Diesel (Low Density)
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Console Compatibility	Maximum Probes / Console	Probe Interface Modules				Availability
		Module Part #	Module Description	# of Modules per Console	# of Probe Inputs per Module	
TLS-450PLUS (8600 Series) with TLS-XB installed (3 max per system)	64	332812-001	Universal Sensor Module (USM) Interface for Probes, Sensors, and DPLLD	Up to 4	16	Sold Separately (either Factory Installed or as a Spare Module)
TLS4i (8601 Series)	4	No module required, probe input capability factory installed				
TLS4c (8601 Series)	2					
TLS-350/R/PLUS	16	329356-002	4-Input Probe Interface Module	4	4	Sold Separately (either Factory Installed or as a Spare Module)
TLS-300i	4	No module required, probe input capability factory installed				
TLS-300C	2					

	Form # & Description	Float Size	Special Instructions	Min/Max Probe Length
<b>Float Installation Kits</b>	330020-776 Kit - Low Level Water Float (1.9" for Gasoline)	4" (10.16cm)	Low level water float kits require a 4" tank opening and connect directly to the existing water float. Wall guide included.	5' (1.5m) - 49.2' (1.25m)
	330020-777 Kit - Low Level Water Float (1.9" for Diesel)	3" (7.62cm)		
	330020-824 Kit - Low Level Water Float (1.9" for Bio-Diesel)	2" (5.08cm)		
<b>Other Installation Accessories</b>	848100-004 - Over voltage protection device 1 per probe recommended 576008-708 - 2" (5.08cm) NPT Adapter for installation of Mag-FLEX AST probes (req'd 1/probe)			
<b>Specifications</b>	<b>Product</b>	<b>Water</b>		
Measurement Accuracy	+/- 0.0800" (2.032mm)	+/- 0.12" (3.048mm)		
Resolution - One Sample Reading	+/- 0.02" (0.508mm)	+/- 0.02" (0.508mm)		
Minimum Measurement	+/- 7.3" (18.542cm) (1.5" (3.81cm) Float)	+/- 5.5" (13.97cm) Std / 1.9" (4.826cm) low level		
Operating (Working) Temperature Range	-40 to +140°F (-40 to +60°C)			
<b>Product</b>	<b>Material</b>			
Probe Canister	Stainless Steel 303			
Rigid Shaft sections	Stainless Steel 304			
Corrugated Flexible Shaft & Floats	Stainless Steel 316 Ti			
Weight	Stainless Steel 303			
Magnet Casing	Conductive Plastic			
Third Party Evaluation / Agency Listings & Links	<a href="http://www.nwglde.org/evals/veeder_root_j.html">http://www.nwglde.org/evals/veeder_root_j.html</a>			
Product Installation Guide Link	<a href="https://www.veeder.com/us/technical-document-library">https://www.veeder.com/us/technical-document-library</a>			

**Example Installation**


1. Insertion measuring point for 2" (5.08cm) pipe cap installations (top of pipe cap to tank bottom)
2. Insertion measuring point for 4" (10.16cm) riser pipe installations (top of riser pipe to tank bottom). Add 2" (5.08cm) for brass ring/and riser cap
3. Null zone - typical all probes
4. Measured insertion length (always order smaller probe if measured insertion length falls between two probes in table)
5. Clearance off bottom
6. Weight length
7. Dead zone
8. Tank grounding bracket
9. Grounding cable
10. Concrete tank pad
11. Earth grounded electrode with cable bracket

# Notice

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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>