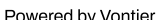


Probe Description & Product Application	Mag-FLEX In-Tank Probes for Monitoring Gas, Diesel, & Alternative Fluids in both USTs and ASTs		
Specific Products Monitored / Product Compatibility	Part # & Description	Approved Products	Monitoring Functionality Options
	1. 0889591-4xx Mag-FLEX probe with gasoline & water floats, wired, UL/cUL *	Gasohol (<=15% Ethanol)	No Leak Detection / Inventory Only
	2. 0889591-5xx Mag-FLEX probe with diesel & water floats, wired, UL/cUL *	Gasoline with <=7% Methanol and 8% TBA	
	3. 0889591-6xx Mag-FLEX probe with no water float, wired, UL/cUL *	Gasoline with <=15% MTBE	
	4. 0889591-8xx Mag-FLEX probe for methanol tanks with no water float, wired, UL/cUL	Gasoline with <=17% TAME	
	5. 0889591-9xx Mag-FLEX probe for plastic tanks with no water floats, wired, UL/cUL	Leaded Gasoline	
	6. 0889591-0xx Mag-FLEX probe for plastic tanks with no water floats, wireless, UL/cUL	Mineral Spirits	
	7. 0889591-1xx Mag-FLEX probe with gasoline & water floats, wireless, UL/cUL	Premium Unleaded Gasoline	
	8. 0889591-2xx Mag-FLEX probe with diesel & water floats, wireless, UL/cUL	Regular Unleaded Gasoline	
	9. 0889591-3xx Mag-FLEX probe with no water float, wireless, UL/cUL	Gasoline with <=15% ETBE	
	10. 0889591-7xx Mag-FLEX probe for methanol tanks with no water float, wireless, UL/cUL	Gasoline with <=12% TBA	
	11. 0889561-4xx Mag-FLEX probe with gasoline & water floats, wired, ATEX/IECEX	Diesel (Fuel Oil #2) **	
	12. 0889561-5xx Mag-FLEX probe with diesel & water floats, wired, ATEX/IECEX	Kerosene (Fuel Oil #1) **	
	13. 0889561-6xx Mag-FLEX probe with no water float, wired, ATEX/IECEX	Bio Diesel (Low Density) **	
	14. 0889561-8xx Mag-FLEX probe for methanol tanks with no water float, wired, ATEX/IECEX	Methanol ***	
	15. 0889561-9xx Mag-FLEX probe for plastic tanks with no water floats, wired, ATEX/IECEX	Diesel Exhaust Fluid (DEF/AdBlue™1) ****	
	16. 0889561-0xx Mag-FLEX probe for plastic tanks with no water floats, wireless, ATEX/IECEX		
	17. 0889561-1xx Mag-FLEX probe with gasoline & water floats, wireless, ATEX/IECEX		
	18. 0889561-2xx Mag-FLEX probe with diesel & water floats, wireless, ATEX/IECEX		
	19. 0889561-3xx Mag-FLEX probe with no water float, wireless, ATEX/IECEX		
	20. 0889561-7xx Mag-FLEX probe for methanol tanks with no water float, wireless, ATEX/IECEX		
	* Only compatible with TLS4, TLS4B, and TLS-450PLUS consoles, software version 6.A or higher ** Only compatible with the Diesel Float Kit *** Applicable to 0889591-8xx, 0889561-8xx, 0889591-7xx, and 0889561-7xx part numbers only **** Applicable to 0889591-0xx, 0889591-9xx, 0889561-0xx and 0889561-9xx part numbers only		

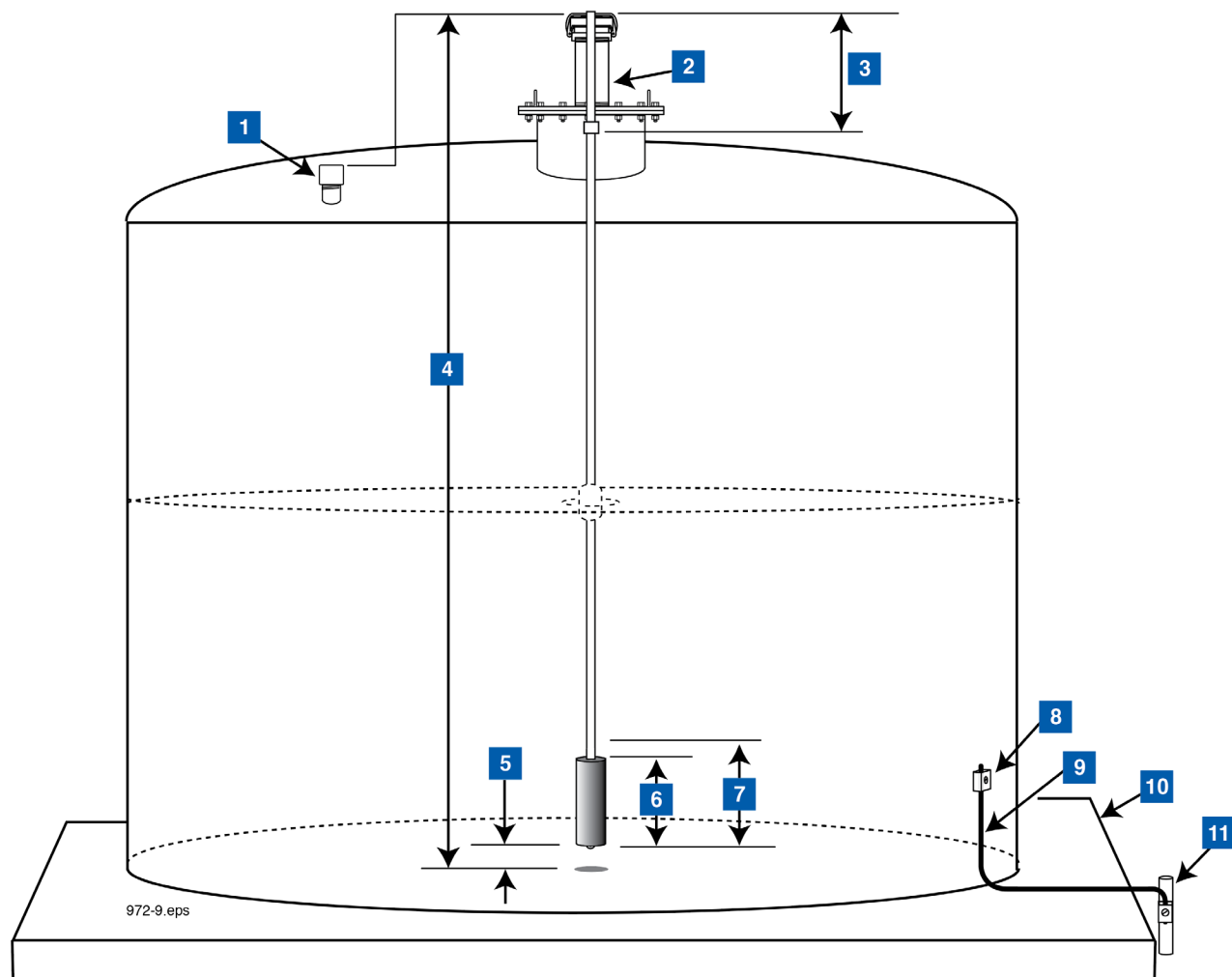
¹ AdBlue™ is a trademark of the Verband der Automobilindustrie e.V. (VDA).



Mag-FLEX In-Tank Probes for Monitoring Gas, Diesel, & Alternative Fluids

Console Compatibility	Maximum Probes / Console	Probe Interface Modules				
		Module Part #	Module Description	# of Modules per Console	# of Probe Inputs per Module	Availability
TLS-450PLUS (8600 Series) with TLS-XB installed (3 max per system)	64	0332812-001	Universal Sensor Module (USM) Interface for Probes, Sensors, and DPLLD	Up to 4	16	Sold Separately (either Factory Installed or as a Spare Module)
TLS4 (8601 Series)	12	No module required, probe input capability factory installed				
TLS4B (8601 Series)	6					
TLS-350/R/PLUS	16	0329356-002	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					
Float Installation Kits	Part # & Description		Float Size	Special Instructions	Min/Max Probe Length	
	0330020-776 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' - 72.1' (1.5m - 22m)	
	0330020-777 Kit – Low Level Water Float (1.9" for Diesel)		4" (10.16cm)			
	0330020-824 Kit – Low Level Water Float (1.9" for Bio-Diesel)		4" (10.16cm)			
Other Installation Accessories	0848100-004 Over voltage protection device 1 per probe recommended 0576008-708 2" (5.08cm) NPT Adapter for installation of Mag-FLEX AST probes (req'd 1/probe)					
Specifications	Product			Water		
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)			5.5" (13.97cm) Standard Float; 1.9" (4.826cm) Low Level Float		
Operating (Working) Temperature Range	-40°F to +140°F (-40°C to +60°C)					
Thermistors	5 Thermistors					
* Minimum measurement height with non-magnetic weight will be dependent on probe installation offset						
Product	Material					
Probe Canister	Stainless Steel 303					
Rigid Shaft Sections	Stainless Steel 304					
Corrugated Flexible Shaft & Floats	Stainless Steel 316 Ti					
Weight Material	Stainless Steel 303 for Steel Tall Tanks and Stainless Steel 316L for Plastic Tall Tanks					
Magnet Casing	Conductive Plastic *					
Product Installation Guide	https://www.veeder.com/us/technical-document-library					
* Magnet casing not applicable for plastic tall tank probes						

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 only applicable when using non-magnetic weight in plastic tanks
6. Weight length
7. Dead zone
8. Tank grounding bracket
9. Grounding cable (configuration shown does not apply to plastic tanks)
10. Concrete tank pad
11. Earth grounded electrode with cable bracket

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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:

<https://neiwpcc.org/nwglde/>