

Probe Description & Product Application	Aluminum Mag Plus In-Tanl Diesel Products &	k Probe for Monitoring Water in both USTs and		Sec.	C			
	Part # & Description		Approved Products		Monitoring Functionality Options			
Specific Products Monitored / Product Compatibility	 Leak Detection / BIR - Accuchart Probes 1. 846396-1XX Aluminum (AL) In-Tank Probe with High Grade Polymer (HGP) Canister with Water Detection & 0.1 GPH Testing Capability, UL 2. 846396-2XX AL In-Tank Probe with HGP Canister with Water Detection & 0.2 GPH Testing Capability, UL 3. 846390-1XX AL In-Tank Probe with AL Canister with Water Detection & 0.1 GPH Testing Capability, UL 4. 846390-2XX AL In-Tank Probe with AL Canister with Water Detection & 0.2 GPH Testing Capability, UL 4. 846390-2XX AL In-Tank Probe with AL Canister with Water Detection & 0.2 GPH Testing Capability, UL 		Gasohol (<=15% Ethanol)		0.1 GPH static in-tank testing for USTs only			
			Gasoline with <=7 and 8% TBA	% Methanol	0.2 GPH static in-tank testing for USTs only			
			Gasoline with <=1	5% MTBE	0.2 GPH Continuous Statistical Leak Detection (CSLD) for USTs only			
			Gasoline with <=1	7% TAME				
			Leaded Gasoline		No Leak Detection/ Inventory Only			
			Mineral Spirits		BIR – AccuChart for			
			Premium Unleade	d Gasoline	USTs only			
			Regular Unleaded	Gasoline				
			Gasoline with <=1	5% ETBE				
			Gasoline with <=1	2% TBA				
			Diesel (Fuel Oil #2	2)				
			Aviation Gas					
			Kerosene (Fuel Oi	l #1)				
		Bio Diesel (Low D	ensity)					
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 (32 with BIR)	332812-001	Universal Sensor Module (USM) Interface for Probes, Sensors, and DPLLD		16	Sold Separately (either Factory Installed or as a Spare Module)		
TLS4i (8601 Series)	4							
TLS4c (8601 Series)	2		nodule required, probe input capability factory installed					
TLS-350/R/PLUS	16	329356-002	4-Input Probe Interface 4 Module		4	Sold Separately (either Factory Installed or as a Spare Module)		
TLS-300i	4							
TLS-300C	2		No module required, probe input capability factory installed					



Aluminum Mag Plus In-Tank Probe for Monitoring Gasoline, Retail Diesel Products, & Water in both USTs and ASTs

	Part # & Description		Float Size	Cable Lengths	Min/Max Probe Length			
	886100-XX0 Mag Plus Phase-Two Separation Float Kit		4" (10.16cm)	5′ (1.5m), 10′ (3.05m), 20′ (6.1m)	48" (1.2m) - 144" (3.66m)			
	846400-3X0 Mag Plus Gasoline Float Kit		3" (7.62cm)					
Float Installation Kits	846400-1X0 Mag Plus Gasoline Float Kit		2" (5.08cm)					
	846400-0X1 Mag Plus Diesel Float Kit		4" (10.16cm)					
	846400-3X1 Mag Plus Diesel Float Kit		3" (7.62cm)					
	846400-1X1 Mag Plus Diesel Float Kit		2" (5.08cm)					
Other Installation Accessories	312020-952 4" (10.16cm) NPT Riser Cap and Ring Kit for In-Tank Probes 330020-282 4" (10.16cm) Threaded NPT Riser Cap for In-Tank Probes							
Specifications	Product		Water					
Measurement Accuracy	+/- 0.0300" (0.762mm)		+/- 0.0300" (0.762mm)					
Resolution - One Sample Reading +/- 0.002857" (0.072571mm)		+/- 0.002857" (0.072571mm)						
Minimum Measurement - 2" (5.08cm) Float Kits 3.23" (8.2cm)		0.8	0.867" (2.2cm)					
/inimum Measurement - 3.04" (7.7cm) " (7.62cm) Float Kits		0.6	0.630" (1.6cm)					
Minimum Measurement - 4" (10.16cm) Float Kits	3.04" (7.7cm) / 7.0" (17.78cm) for Phase-Two Float Kit	0.6	0.630" (1.6cm)					
Operating (Working) Temperature Range	-40 to +122°F (-40 to +50°C)							
Third Party Evaluation / Agency	UL, cUL, ATEX, IECEx							
Listings & Links	http://www.nwglde.org/evals/veeder_root_j.html							
Product Installation Guide Link	https://www.veeder.com	m/us	s/technical-doc	ument-library				
	Example Installation							
Riser cap v bushing an Concrete slab or p earth per NFPA 80 A = 10" (25.4cm) minimum for mag plus/mag plus probes. W installing a probe longer than tank diameter, increase this m dimension to compensate. (Example: a 7' (2.1m) - 6" (15.2 diameter tank will use an 8' (2. probe, in which case you must	vith cord grip d nut acked r global the the inimum 4m) add 6" the the the the the the the the the the	read	s (16 cubic inch Cord grip seals - Il-off, epoxy seal 4/1/2" (1.27cm) ser pipe: 2- (5.0 Pl schedule 40 c ote: Recommen obe and STP is 	box with 1/2" (1.3 (262.2cm ³) minin l per NFPA spec Rigid conduit (to 0 8cm), 3- (7.62cm) depending on prob ded distance betw at least 12" (30.48	num) Console) , or 4" (10.16cm) ee type veen			
(15.24cm) to minimum riser le	ngth 'A'). Mag Probe (rests on bottom)	req	uired if probe ers the riser.	3/4" (1.9cm) ID	25			

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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

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