Probe Products Application Guide



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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



Probe Description & Product Application	Aluminum Mag Plus In-Tanl Diesel Products &	k Probe for Monitoring Water in both USTs and			C	
	Part # & Desc	ription	Approved	Products	Monitoring Fu	Inctionality Options
	Leak Detection / BIR - Accuch 1. 846396-1XX Aluminum (AL	Gasohol (<=15% E	thanol)	0.1 GPH stati for USTs only	c in-tank testing	
	 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 		Gasoline with <=7 and 8% TBA	% Methanol	0.2 GPH stati for USTs only	c in-tank testing
			Gasoline with <=1	5% MTBE		tinuous Statistical
			Gasoline with <=1	7% TAME	only	on (CSLD) for USTs
Specific Products			Leaded Gasoline		No Leak Dete Inventory Onl	
Monitored / Product	Canister with Water Detect		Mineral Spirits		BIR – AccuChart for	
Compatibility	Capability, UL		Premium Unleade	d Gasoline	USTs only	
			Regular Unleaded	Gasoline		
			Gasoline with <=1	5% ETBE		
			Gasoline with <=1	2% TBA		
			Diesel (Fuel Oil #2)		
			Aviation Gas			
			Kerosene (Fuel Oi			
		r	Bio Diesel (Low D	ensity)		
			Probe I	nterface Module	s	
Console Compatibility	Maximum Probes / Console	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	Up to 4	16	Sold Separately (either Factory Installed or as a Spare Module)
TLS4i (8601 Series)	4					
TLS4c (8601 Series)	2	No m	nodule required, prol	be input capabilit	y factory instal	ied
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	NI			v footory instal	
TLS-300C	2	Non	nodule required, prol	be input capabilit	y ractory instal	ieu



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)			
	846400-3X0 Mag Plus Gasoline Float Kit		3" (7.62cm)			
Float Installation Kits	846400-1X0 Mag Plus Gasoline Float Kit		2" (5.08cm)	5' (1.5m), 10' (3.05m),	48" (1.2m) - 144" (3.66m)	
	846400-0X1 Mag Plus Diesel Float Kit		4" (10.16cm)	20' (6.1m)		
	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 330020-282 4" (10.16cm) Threaded NPT Riser Cap					
Specifications	Product	Wa	ter			
Measurement Accuracy	+/- 0.0300" (0.762mm)	+/-	0.0300" (0.762m	ım)		
Resolution - One Sample Reading	+/- 0.002857" (0.072571mm)	+/-	0.002857" (0.07	2571mm)		
Minimum Measurement - 2" (5.08cm) Float Kits	3.23" (8.2cm)	0.8	67" (2.2cm)			
Minimum Measurement - 3" (7.62cm) Float Kits	3.04" (7.7cm)	0.6	30" (1.6cm)			
Minimum Measurement - 4" (10.16cm) Float Kits	3.04" (7.7cm) / 7.0" (17.78cm) for Phase-Two Float Kit	0.6	30" (1.6cm)			
Operating (Working) Temperature Range	-40 to +1	22°F	(-40 to +50°C)			
Third Party Evaluation / Agency	UL, c	UL, A	TEX, IECEx			
Listings & Links	http://www.nwglde.	.org/	rg/evals/veeder_root_j.html			
Product Installation Guide Link	https://www.veeder.com	m/us	/us/technical-document-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 ad nut acked r global then the the inimum 24cm) 4m) add 6"	read	s (16 cubic inch Cord grip seals l-off, epoxy seal 4/1/2" (1.27cm) ser pipe: 2- (5.0 Pl schedule 40 c ote: Recommen obe and STP is	I box with 1/2" (1.3 (262.2cm ³) minin I 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) pe 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	ps	

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Density Mag Plus In-Tank Probe for Monitoring Gasoline & Diesel Products in both USTs and ASTs

Probe Description & Product Application		-Tank Probe for Monite ducts in both USTs an			~~~~		
	Part # & De	escription	Approved P	roducts	Monitorin	g Functionality	
	Leak Detection / BIR -		Leaded Gasoline		0.1 GPH stat	ic in-tank testing	
	1. 846396-7XX Alumi Probe with High Gr Canister with Wate	ade Polymer (HGP)	Gasoline with <=7 and 8% TBA	% Methanol	0.2 GPH stat	ic in-tank testing	
	GPH Testing Capat 2. 846396-8XX AL wit	th HGP Canister with	Gasoline with <=1	5% MTBE	0.2 GPH Con Leak Detection	tinuous Statistical on (CSLD)	
Specific Products Monitored /	Water Detection & 0.2 GPH Testing Capability, UL 3. 846397-7XX Stainless Steel (SS) with		Gasoline with <=1	7% TAME	No Leak Detection / Inventory Only		
Product Compatibility	HGP Canister with	Water Detection &	Regular Unleaded Gasoline		BIR – AccuChart		
	4. 846397-8XX SS wit	Water Detection & 0.2 GFTT resting		Premium Unleaded Gasoline		Density Range = 700 - 800 kg/ m ³	
			Gasoline with <=15% ETBE				
	No Leak Detection/Inv 1. 846397-9XX SS wit Water Detection & I Inventory Only, UL	th HGP Canister with No Leak Detection/	nister with				
			Probe Interface Modules				
Console Compatibility	Maximum Probes / Console	Module Part #	Module Description	# of Modules per Console	# of Probe Inputs per Module	Availability	
TLS-450PLUS (8600 Series) - Minimum Software Version 5B with TLS-XB installed (3 max per system)	64	64 332812-001		Up to 4	16	Sold Separately (either Factory Installed or as a Spare Module)	
TLS4i (8601 Series) - Minimum Software Version 5B	4	No			tu footoru in-t-	Mod	
TLS4c (8601 Series) - Minimum Software Version 5B	2		dule required, probe	- притсарарш		aneu	



Density Mag Plus In-Tank Probe for Monitoring Gasoline & Diesel Products in both USTs and ASTs

	Form # & Description	Float	Size	Cable Lengths	Min/Max Probe Lengt
Float Installation Kits	886001-1X0 Mag-D Gasoline Float Kit	2" (5.0)8cm)	5' (1.5m),	48" (1.2m) -
	886001-1X1 Mag-D Diesel Float Kit	2" (5.0)8cm)	10' (3.05m), 20' (6.1m)	144" (3.66m)
Other Installation Accessories	312020-952 4" (10.16cm) NPT Riser Cap and 330020-282 4" (10.16cm) Threaded NPT Riser				
Specifications	Product	v	Nater		
Measurement Accuracy	+/- 0.0300" (0.762mm) +/- 0.0300" (0.762mm)				
Resolution - One Sample Reading	+/- 0.002857" (0.072571mm)	+	+/- 0.002	2857" (0.072571	mm)
Minimum Measurement - 2" (5.08cm) Float Kits	8.00" (20.32cm)	0).87" (2.:	2cm)	
Operating (Working) Temperature Range	-40 to	o +122°F (-4	40 to +5	0°C)	
Third Party Evaluation / Agency	U	L, cUL, ATE	EX, IECE>	(
Listings & Links	http://www.nwg	glde.org/eva	als/veed	ler_root_j.html	
Product Installation Guide Link	https://www.veede	r.com/us/te	echnica	-document-libra	ary
	Example Installation				
14" (35.56cm)	min. dia. manhole Probe cable	Weatherpr	roofjun	ction box with	1/2" (1.27cm) NPT
Riser cap wi bushing and Concrete slab or pa	ith cord grip d nut	threads (1)	roof jun 6 cubic d grip se	inch (262.2cm	1/2" (1.27cm) NPT ³) minimum)
Riser cap wi bushing and	ith cord grip d nut incked	threads (1)	6 cubic d grip so f, epoxy	inch (262.2cm eals seal per NFPA	³) minimum)
Riser cap wi bushing and Concrete slab or pa	ith cord grip d nut icked global hen he the nimum <i>Acm</i>) <i>m</i>) <i>add</i> 6" <i>gth 'A'</i>). Mag Probe	threads (1) Coro Seal-off API so Note: probe	6 cubic d grip s f, epoxy 2" (1.27 pipe: 2- chedule Recom	inch (262.2cm eals r seal per NFPA cm) Rigid cond (5.08cm), 3- (7 40 depending mended distar 'P is at least 12 '' 7) Top view e 3/4" (1.9cm) II	A spec duit (to Console) 7.62cm), or 4" (10.16cm) on probe type nce between 2" (30.48cm)
Riser cap wi bushing and Concrete slab or pa earth per NFPA 80 A = 10" (25.4cm) minimum for mag plus/mag plus probes. Wh installing a probe longer than th tank diameter, increase this min dimension to compensate. (<i>Example: a 7' (2.1m) - 6" (15.24 diameter tank will use an 8' (2.4 probe, in which case you must a</i>	ith cord grip d nut ncked global hen he the nimum Acm) madd 6" igth 'A').	threads (1) Coro Seal-off API so Note: probe	6 cubic d grip so f, epoxy 2" (1.27 pipe: 2- chedule Recom e and ST mg Collar 76008-61 d if prob	inch (262.2cm eals ' seal per NFPA cm) Rigid cond (5.08cm), 3- (7 40 depending mended distar 'P is at least 12 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	A spec duit (to Console) 7.62cm), or 4" (10.16cm) on probe type nce between 2" (30.48cm)
Riser cap wi bushing and Concrete slab or pa earth per NFPA 80 A = 10" (25.4cm) minimum for mag plus/mag plus probes. Wh installing a probe longer than th tank diameter, increase this min dimension to compensate. (<i>Example: a 7' (2.1m) - 6" (15.24 diameter tank will use an 8' (2.4 probe, in which case you must a</i>	ith cord grip d nut icked global hen he the nimum <i>Acm</i>) <i>m</i>) <i>add</i> 6" <i>gth 'A'</i>). Mag Probe	threads (1) Coro Seal-off API so Note: probe	6 cubic d grip so f, epoxy 2" (1.27 pipe: 2- chedule Recom e and ST mg Collar 76008-61 d if prob	inch (262.2cm eals ' seal per NFPA cm) Rigid cond (5.08cm), 3- (7 40 depending mended distar 'P is at least 12 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	A spec duit (to Console) 7.62cm), or 4" (10.16cm on probe type nce between 2" (30.48cm)
Riser cap wi bushing and Concrete slab or pa earth per NFPA 80 A = 10" (25.4cm) minimum for mag plus/mag plus probes. Wh installing a probe longer than th tank diameter, increase this min dimension to compensate. (<i>Example: a 7' (2.1m) - 6" (15.24 diameter tank will use an 8' (2.4 probe, in which case you must a</i>	ith cord grip d nut icked global hen he the nimum <i>Acm</i>) <i>m</i>) <i>add</i> 6" <i>gth 'A'</i>). Mag Probe	threads (1) Coro Seal-off API so Note: probe	6 cubic d grip so f, epoxy 2" (1.27 pipe: 2- chedule Recom e and ST mg Collar 76008-61 d if prob	inch (262.2cm eals ' seal per NFPA cm) Rigid cond (5.08cm), 3- (7 40 depending mended distar 'P is at least 12 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	A spec duit (to Console) 7.62cm), or 4" (10.16cm) on probe type nce between 2" (30.48cm)
Riser cap wi bushing and Concrete slab or pa earth per NFPA 80 A = 10" (25.4cm) minimum for mag plus/mag plus probes. Wh installing a probe longer than th tank diameter, increase this min dimension to compensate. (<i>Example: a 7' (2.1m) - 6" (15.24 diameter tank will use an 8' (2.4 probe, in which case you must a</i>	ith cord grip d nut icked global hen he the nimum <i>Acm</i>) <i>m</i>) <i>add</i> 6" <i>gth 'A'</i>). Mag Probe	threads (1) Coro Seal-off API so Note: probe	6 cubic d grip so f, epoxy 2" (1.27 pipe: 2- chedule Recom e and ST mg Collar 76008-61 d if prob	inch (262.2cm eals ' seal per NFPA cm) Rigid cond (5.08cm), 3- (7 40 depending mended distar 'P is at least 12 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	A spec duit (to Console) 7.62cm), or 4" (10.16cm) on probe type nce between 2" (30.48cm)

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Probe Description & Product Application	Density Mag Plus In-Tank Prob in both US	e for Monitorir Ts and ASTs	ng Other Products		- C - C	
	Part # & Descriptio	n	Approved P	roducts	Monitoring F	unctionality Options
	Leak Detection / BIR - Accucha		Diesel (Fuel Oil #2))	0.1 GPH stati	ic in-tank testing
	1. 846396-7XX Aluminum (AL) Probe with High Grade Polym		Bio Diesel (Low De	ensity)	0.2 GPH stati	ic in-tank testing
	Canister with Water Detection Testing Capability, UL	n & 0.1 GPH	Bio Diesel (High De	ensity)	0.2 GPH Cont Leak Detectio	tinuous Statistical on (CSLD)
	 846396-8XX AL In-Tank Prob Canister with Water Detection Testing Capability, UL 	on & 0.2 GPH	Kerosene (Fuel Oil	#1)	No Leak Detection / Inventory Only	
Specific Products Monitored /	 846397-7XX Stainless Steel Probe with HGP Canister wit 		Jet Fuel (Incl JP8)		BIR – AccuChart	
Product Compatibility	Detection & 0.1 GPH Testing		Fuel Oil #4		Density Range = 700 - 800 kg/m ³	
	Capability, UL 4. 846397-8XX SS In-Tank Prob	with HCP	Diesel (Fuel Oil #2)			
	Canister with Water Detection		Aviation Gas			
	Testing Capability, UL <u>No Leak Detection/Inventory O</u> 1. 846397-9XX SS In-Tank Prob Canister with Water Detection Detection/Inventory Only, UL	e with HGP on & No Leak				
			Prol	be Interface Mo	dules	
Console Compatibility	Maximum Probes / Console	Module Part #	Module Description	# of Modules per Console	# of Probe Inputs per Module	Availability
TLS-450PLUS (8600 Series)- Minimum Software Version 5B with TLS-XB installed (3 max per system)	64 (32 with BIR)	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) - Minimum Software Version 5B	4				ability factory in	Astalled
TLS4c (8601 Series) - Minimum Software Version 5B	2		No module required,	prope input capa	ability ractory li	ISIAIIEU



	Part # & Description	Float Size	Cable Lengths	Min/Max Probe Lengtl		
Float Installation Kits	886001-1X1 Mag-D Diesel Float Kit	2" (5.08cm)	5' (1.5m), 10' (3.05m), 20' (6.1m)	48" (1.2m) - 144" (3.66m)		
Other Installation Accessories	312020-952 4" NPT Riser Cap and Ring Kit for In-Tank Probes 330020-282 4" 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	6.367" (16.17cm)	1.495" (3.797cm	ו)			
Operating (Working) Temperature Range	-40 to +122°F (-	-40 to +50°C)				
Third Party Evaluation /	UL, cUL, AT	EX, IECEx				
Agency Listings & Links	http://www.nwglde.org/ev	vals/veeder_root_	<u>j.html</u>			
Product Installation Guide Link	https://www.veeder.com/us/	technical-docum	ent-library			
	Example Installation					
14" ((35.56cm) min. dia. manhole Probe cable Wea	atherproof junct	ion box with $1/2^{\circ}$	' (1.27cm) NPT		
Ri bu	iser cap with cord grip ushing and nut	atherproof junct ads (16 cubic in — Cord grip sea	nch (262.2cm³) m	' (1.27cm) NPT ninimum)		
Ri bu	slab or packed	eads (16 cubic in — Cord grip sea — - - - - - - - - - -	nch (262.2cm³) m	ec		

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Mag Plus In-Tank Probe for Monitoring Chemical Products in both USTs and ASTs

Probe Description & Product Application	Mag Plus In-Tank Prol in b	be for Monitorir oth USTs and A	ng Chemical Products STs			
	Part # & Descrip	tion	Approved Produ	icts		ng Functionality Options
			Acetone			
			Xylene			
			Acetate (Ethyl, Butyl, n-Pro	pyl)		
		D				
			Petroleum Naphtha			
Specific Products Monitored / Product Compatibility	846397-6XX Stainless Steel (SS) In-Tank Probe with High Grade Polymer (HGP) Canister No Water Detection, UL		Isopropyl Alcohol		No Leak Detection / Inventory Only	
			Dimethyl formamide			
			1-Butyl (butyl alcohol)			
			Butanol			
			Methyl Ethyl Ketone			
			Ethyl Benzene			
			Methyl Isobutyl Ketone			
-			Probe Inte	erface Modules		
Console Compatibility	Maximum Probes / Console	Module Part #	Module Description	# of Modules per Console	# of Probe Inputs per Module	Availability
TLS-450PLUS (8600 Series)	64	332812-001	Universal Sensor Module (USM) Interface for Probes, Sensors, and DPLLD	Up to 4 - TLS-4XX	16	Sold Separately (either Factory Installed or as a Spare Module)
TLS4i (8601 Series)	4		1			L
TLS4c (8601 Series)	2	1	No module required, probe	input capability	/ factory insta	lled
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 modulo required prob-		factoriate	
TLS-300C	2]	No module required, probe	input capability	ractory insta	ned



Mag Plus In-Tank Probe for Monitoring Chemical Products in both USTs and ASTs

	Part # & Description	Float Size	Cable Lengths	Min/Max Probe Length	Min/Max Chemical Tank Diameter		
Float Installation Kits	331824-XXX Chemical-ISO Probe Inventory Only Installation Kits	2" (5.08cm)	5' (1.5m), 10' (3.05m), 20' (6.1m)	48" (1.2m) - 144" (3.66m)	42" (106.68cm) - 138" (350.52cm)		
Other Installation Accessories		1	/A				
Specifications	Product		Water				
Measurement Accuracy	+/- 0.0300" (0.762mm)	N/A					
Resolution - One Sample Reading	+/- 0.002857" (0.072571mm)		N/A				
Minimum Measurement - 2" (5.08cm) Float Kits	3.3" (8.382cm)		N/A				
Operating (Working) Temperature Range	-40 to +122°F (-40 to +50°C)		N/A				
Third Party Evaluation / Agency Listings & Links	http://ww	w.nwglde.org	/evals/veeder_	<u>root_j.html</u>			
Product Installation Guide Link	https://www.v	/eeder.com/u	is/technical-do	ocument-library			
	Example Installation						
	in shield final position) Male	ushing, Stai	7/8" (22.23mn	n) to 1" (2.54cı cm) NPT	m) NPT		
	nk bottom ark on tube see Step 3) Gland nut (Mag	velded stain).D. stainless less plug lowered into				
SS float (ou Make sure n (marked "TC Float reta (end of t	nagnet end DP") is up aining ring	ע lowe by pו nin.	(8.382cm) Ap st product lev obe 773-2	vel measured			

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Mag Plus In-Tank Probe for Monitoring Light & Heavy Oil Products with & without Water Detection in both USTs and ASTs

Probe Description & Product Application	Mag Plus In-Tank Probe for N with & without Water D				¢		
	Part # & Descr	iption	Approved P	roducts		g Functionality ptions	
	No Leak Detection/Inventory	Only Probes with	Motor Oil		No Leak Dete	ection /	
	Water Detection 1. 846397-3XX Stainless Stee	l (SS) In-Tank Probe	Gear Oil, 90W		Inventory Onl	у	
	with High Grade Polymer (H	HGP) Canister with	Transmission Flu	iid			
	Water Detection & No Leak Only, UL	Detection/Inventory	Bio Diesel (High I	Density)	1		
	2. 846391-3XX SS In-Tank Pro		Fuel Oil #4		1		
	(AL) Canister with Water De Detection/Inventory Only, U		Toluene		1		
Product Compatibility	No Leak Detection/Inventory (Water Detection 1. 846397-6XX SS In-Tank Pro Canister with No Water Dete Detection/Inventory Only, UI 2. 846391-6XX SS In-Tank Pro with No Water Detection & N Inventory Only, UL	be with HGP ection & No Leak L be with AL Canister					
			Probe In	terface Modu	les	r	
Console Compatibility	Maximum Probes / Console	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	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	N.			: :		
TLS4c (8601 Series)	2		dule required, prob	е прит сарар	mity ractory inst	aneu	
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				:::	- 111	
TLS-300C	2	No module required, probe input capability factory installed					



Mag Plus In-Tank Probe for Monitoring Light & Heavy Oil Products with & without water detection in both USTs and ASTs

	Part # & Description	Float Size	Cable Lengths	Min/Max Probe Length	
	846400-0X4 Mag Plus Alternative Fluids Float K No Water Float	^{(it -} 4" (10.16cm)			
	846400-3X4 Mag Plus Alternative Fluids Float K No Water Float	^{(it -} 3" (7.62cm)		48" (1.2m) - 144" (3.66m)	
Float Installation Kits	846400-1X4 Mag Plus Alternative Fluids Float K No Water Float	^{(it -} 2" (5.08cm)	5' (1.5m), 10' (3.05m), 20' (6.1m)		
	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" NPT Riser Cap and Ring Kit for In 330020-282 4" Threaded NPT Riser Cap for In-T				
Specifications	Product	Water			
Measurement Accuracy	+/- 0.0300" (0.762mm)	+/- 0.0300"	(0.762mm)		
Resolution - One Sample Reading	+/- 0.002857" (0.072571mm)	+/- 0.00285	7" (0.072571mm)		
Minimum Measurement - 2" (5.08cm) Float Kits	3.23" (8.2cm)	0.867" (2.2c	m)		
Minimum Measurement - 3" (7.62cm) Float Kits	3.04" (7.72cm)	0.630" (1.6c	m)		
Minimum Measurement - 4" (10.16cm) Float Kits	3.04" (7.72cm)	0.630" (1.6c	m)		
Operating (Working) Temperature Range	-40 to +	-122°F (-40 to +50	°C)		
Third Party Evaluation / Agency Listings & Links	http://www.nwgld	e.org/evals/veed	<u>ler_root_j.html</u>		
Product Installation Guide Link	https://www.veeder.c	om/us/technical	-document-libra	ary	
	Example Installation				
14" (35.56cm) min. dia. manhole Probe cable Weatherproof junction box with 1/2" (1.27cm) NP threads (16 cubic inch (262.2cm³) minimum) Riser cap with cord grip bushing and nut Concrete slab or packed earth per NFPA 80 Concrete slab or packed earth per NFPA 80 A = 10" (25.4cm) minimum for global mag plus/mag plus probes. When installing a probe longer than the the tank diameter, increase this minimum Riser pipe: 2- (5.08cm), 3- (7.62cm), or 4" (10 API schedule 40 depending on probe type Note: Recommended distance between probe and STP is at least 12" (30.48cm)					
(Example: a 7' (2.1m) - 6" (15.24cm diameter tank will use an 8' (2.4m) probe, in which case you must add (15.24cm) to minimum riser length	Split-Ring Collar (P/N 576008-617) required if probe enters the riser.	3/4" (1.9cm) ID	9-13.eps		

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Probe Description & Product Application	Mag Plus In-Tank Probe in both U	e for Monitoring LF JSTs and ASTs	PG Products	No.	- C	
	Part # & Descrip	tion	Approved F	Products		g Functionality ptions
Specific Products Monitored / Product Compatibility	 846397-6XX Stainless Steel Probe with High Grade Poly Canister, No Water Detectio 846391-6XX SS with Alumir Canister, No Water Detectio 	I (SS) In-Tank Liquified Petroleum mer (HGP) n, UL hum (AL)			No Leak Dete Inventory Onl	
	Probe Interface Modules					
Console Compatibility	Maximum Probes / Console	Module Part #	Module Description	# of Modules per Console	# of Probe Inputs per Module	Availability
TLS-450PLUS (8600 Series)	64	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	No	module required, pro	obe input capab	inty factory inst	tailed
TLS-350/R/PLUS	16	329356-002	4	4	Sold Separately (either Factory Installed or as a Spare Module)	
TLS-300i	4	NI	modulo roquirod	abo input con-Li		tallad
TLS-300C	2	NO	module required, pro			



	Part # & Description	Floa	at Size	Cable Lengths	Min/Max Probe Length	Min/Max Chemical Tank Diameter
Float Installation Kits	333083-XXX LPG-ISO Probe Inventory Only Installation Kits	1.5" (3.81cm)	5' (1.5m), 10' (3.05m),	48" (1.2m) -	42" (106.68cm) -
	333082-XXX LPG-ISO Probe Inventory Only Installation Kits	2.0" (5.08cm)		20' (6.1m)	144" (3.66m)	138" (350.52cm)
Other Installation Accessories						
Specifications	Product		Water			
Measurement Accuracy	+/- 0.0300" (0.762mm)		N/A			
Resolution - One Sample Reading	+/- 0.002857" (0.072571mm)		N/A			
Minimum Measurement - 1.5" (3.81cm) Float Kits	3.25" (82.55mm)		N/A			
Minimum Measurement - 2.0" (5.08cm) Float Kits	3.25" (82.55mm)		N/A			
Operating (Working) Temperature Range	-40 to +122°F (-40 to +50°C)		N/A			
Working Pressure	375 psi		N/A			
Third Party Evaluation / Agency Listings & Links	http://www.nwgld	e.org/e	evals/vee	eder_root_j.ht	ml	
Product Installation Guide Link	https://www.veeder.co	om/us	/technica	al-document-	library	
	LPG-ISO probe kit length should be at least 6 inches (152.4 mm) longer than the tank's inside diameter.	Iale conn ∕− Bush	be canister ector 7/8" t ing, Stainles T x 1.5" or 2	ss Steel		
	Mag probe float	vith welde	ed stainless	stainless steel tu plug ered into tube)	be	
	(outside tube) Float retaining ring (end of tube) Tank bottom L" (25.4 m clearance		- lowest by pro	(82.55 mm) Appro t product level me be		

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Probe Description & Product Application		-Tank Probes for Mo ative Fluids in both		sel, &	and the second sec		
	1	Part # & Description		Арр	roved Products		ng Functionality Options
	water floats, w				(<=15% Ethanol)	No Leak Det Inventory Or	
	floats, wired, L	Mag-FLEX probe wit JL/cUL Mag-FLEX probe wit			e with <=7% bl and 8% TBA		
		L/cUL Mag-FLEX probe for water float, wired, UI			e with <=15% MTBE		
	5. 0889591-1XX water floats, w	Mag-FLEX probe wit vireless, UL/cUL	th gasoline &		e with <=17% TAME		
	floats, wireles	Mag-FLEX probe wit s, UL/cUL Mag-FLEX probe wit		Mineral	Gasoline Spirits		
Specific Products Monitored /	float, wireless, 8. 0889591-7XX	, UL/cUL Mag-FLEX probe for	rmethanol	Premiun	n Unleaded		
Product Compatibility		water float, wireless Mag-FLEX probe wit vired, ATEX		Gasoline Regular	unleaded Gasoline		
	water floats,	X Mag-FLEX probe w wired, ATEX X Mag-FLEX probe w		Gasoline	e with <=15% ETBE		
	float, wired, A 12. 0889561-8XX	ATEX X Mag-FLEX probe fo	or methanol	Gasoline	e with <=12% TBA		
	13. 0889561-1X	o water float, wired, / X Mag-FLEX probe w wireless, ATEX		Diesel (F	Fuel Oil #2)		
	14. 0889561-2XX water floats,	X Mag-FLEX probe w wireless, ATEX			e (Fuel Oil #1)		
	float, wireles	X Mag-FLEX probe w s, ATEX X Mag-FLEX probe fo			el (Low Density)		
	tanks with no	o water float, wireles	s, ATEX	Methand	0 * 	Imbers only	
					terface Modules		
Console Compatibility	Maximum Probes / Console	Module Part #	Module Desc	ription	# 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 Se Module (USM) for Probes, Se and DPLI	nterface ensors,	Up to 4	16	Sold Separately (either Factory Installed or as a Spare Module)
TLS4 (8601 Series)	12		No modulo rocu	ired prob	input capability fast	ony installed	
TLS4B (8601 Series)	6			neu, probe	e input capability fact	ory installed	
TLS-350/R/PLUS	16	0329356-002	4-Input Probe I Module		4	4	Sold Separately (either Factory Installed or as a Spare Module)
TLS-300i	4	ļ	No module requ	ired probe	e input capability fact	orv installed	
TLS-300C	2			nca, probe	- mput capability idet		



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

	Part # & Description	Float Size		Special Instructions	Min/Max Probe Length	
	0330020-776 Kit – Low Level Water Float (1.9″ for Gasoline)	4" (10.16cm	ı)	Low level water float kits require		
Float Installation Kits	0330020-777 Kit – Low Level Water Float (1.9" for Diesel)	4" (10.16cm	ו)	a 4" tank opening and connect directly to the	5' (1.5m) - 72.1' (22m)	
	0330020-824 Kit – Low Level Water Float (1.9" for Bio-Diesel)	4" (10.16cm	ו)	existing water float. Wall guide included.		
Other Installation Accessories	0848100-004 Over voltage protection devic 0576008-708 2" (5.08cm) NPT Adapter for	e 1 per probe re installation of N	ecom Mag-l	nmended FLEX AST probes (req	'd 1/probe)	
Specifications	Product		Wat	ter		
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) probe; 1.5" (3.81cm) flo	bat	+/-	5.5" (13.97cm) Std; 1.	9" (4.826cm) low level	
Operating (Working) Temperature Range		-40 to +140°F	(-40 1	to +60°C)		
Thermistors		5 Therr	nisto	ors		
Product		Mate	erial			
Probe Canister		Stainless	Stee	I 303		
Rigid Shaft Sections		Stainless	Stee	I 304		
Corrugated Flexible Shaft & Floats		Stainless S	teel	316 Ti		
Weight		Stainless	Stee	I 303		
Magnet Casing		Conductiv	ve Pla	astic		
Third Party Evaluation / Agency Listings	http://ww	w.nwglde.org/e	evals	<u>/veeder_root_j.html</u>		
Product Installation Guide	https://www.	veeder.com/us	/tech	nnical-document-librar	У	
	Example Ins	tallation				
ſ					point for 2" (5.08cm) pipe cap ipe cap to tank bottom)	
				pipe installations (top	point for 4" (10.16cm) riser o of riser pipe to tank bottom). rass ring/and riser cap.	
			3.	Null zone - typical all	probes	
					ength (always order smaller sertion length falls between	
••=====================================			5.	Clearance off bottom		
			6.	Weight length		
				Dead zone		
		10	8.	Tank grounding brack	et	
		11		Grounding cable		
972-9.eps	↑		10.	Concrete tank pad		
		1	11.	Earth grounded electr	ode with cable bracket	

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Stainless Steel Mag Plus In-Tank Probe for Monitoring Alternative Fluids with No Water Detection in both USTs and ASTs

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Probe Description & Product Application		g Plus In-Tank Probe for Mon D Water Detection in both US		Sec.	¢	
	Part # 8	& Description	Approved Pr	roducts	Monitoring F	unctionality Options
		ess Steel (SS) In-Tank ade Polymer (HGP)	Alcohol (<=100% A Fuel Oil #6	lcohol)*	for USTs o	tatic in-tank testing nly atic in-tank testing
	Canister with No W Testing Capability,	/ater Detection & 0.1 GPH UL			for USTs o	
	2. 846397-5XX SS In-	Tank Probe with HGP	Propylene Glycol		C. 0.2 GPH C	
	Testing Capability,	/ater Detection & 0.2GPH UL Tank Probe with Aluminum	Methyl Alcohol*			Leak Detection USTs only
Specific Products Monitored / Product		No Water Detection & 0.1	Methanol (<=100%	Alcohol)*		etection / Inventory STs & ASTs
Compatibility	4. 846391-5XX SS In-	Tank Probe with AL /ater Detection & 0.2 GPH	ETBE (<=100% Ethe	er)	E. BIR – Accı	uchart for USTs only
	Testing Capability,		Ethanol (<=100% A includes E85*	lcohol)	* Limited to I	E85 for ATEX probes
	No Leak Detection/Inv 1. 846397-6XX SS wit		MTBE (<=100% Eth	er)		
	No Water Detection	n & No Leak Detection/	Used Oil		1	
	Inventory Only, UL 2. 846391-6XX SS wit	h Al-Canister with No	Ethylene Glycol		1	
	Water Detection & N		Windshield Washer	Fluid	1	
	Inventory Only, UL		DEF (AdBlue)		1	
			Probe Inter	face Modules		
Console Compatibility	Maximum Probes / Console	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	Up to 4	16	Sold Separately (either Factory Installed or as a Spare Module)
TLS4i (8601 Series)	4		• Late as an inc. 1 = 1 = •			
TLS4c (8601 Series)	2	No mod	lule required, probe in	iput capability f	actory installe	a
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	Nomed	ula required probain	nut oppobility f	antony installe	
TLS-300C	2		lule required, probe in	iput capability f	actory installe	u



Stainless Steel Mag Plus In-Tank Probe for Monitoring Alternative Fluids with No Water Detection in both USTs and ASTs

	Part # & Description	Float Size	Cable Lengths	Min/Max Probe Length
	846400-0X4 Mag Plus Alternative Fluids Float Kit - No Water Float	4" (10.16cm)		
loat Installation Kits	846400-3X4 Mag Plus Alternative Fluids Float Kit - No Water Float	3" (7.62cm)	5' (1.5m), 10' (3.05m), 20' (6.1m)	48" (1.2m) - 144" (3.66m)
	846400-1X4 Mag Plus Alternative Fluids Float Kit - No Water Float	2" (5.08cm)	20 (0.111)	
Other Installation Accessories	312020-952 4" (10.16cm) NPT Riser Cap and Ring 330020-282 4" (10.16cm) Threaded NPT Riser Cap			
Specifications	Product	Water		
leasurement Accuracy	+/- 0.0300" (0.762mm)	N/A		
Resolution - One Sample Reading	+/- 0.002857" (0.072571mm)	N/A		
/inimum Measurement - 2" (5.08cm) Float Kits	3.23" (8.2cm)	N/A		
/inimum Measurement - 3" (7.62cm) Float Kits	3.04" (7.72cm)	N/A		
/inimum Measurement - 4" (10.16cm) Float Kits	3.04" (7.72cm)	N/A		
Operating (Working) Temperature Range	-40 to +122°F (-	40 to +50°C)		
	UL, cUL, AT	EX, IECEx		
hird Party Evaluation / Agency Listings & Links	http://www.nwglde.org/ev	<u>/als/veeder_roc</u>	<u>ot_j.html</u>	
Product Installation Guide Link	https://www.veeder.com/us/ Example Installation	technical-docur	ment-library	
Product Installation Guide Link 14" (35.56cm) min. dia. ma Riser cap with cord grip bushing and nut	https://www.veeder.com/us/ Example Installation Anhole Probe cable Weatherproof j threads (16 cul	echnical-docur	nent-library) NPT
Product Installation Guide Link 14" (35.56cm) min. dia. ma Riser cap with cord grip bushing and nut	https://www.veeder.com/us/ Example Installation Anhole Probe cable Weatherproof j threads (16 cul Cord grip Seal-off, epo	echnical-docur	n 1/2" (1.27cm m³) minimum)	

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

Probe Description & Product Application	Stainles Steel Mag Plus In-T Retail Diesel Products &				G	
	Part # & Descript	tion	Specific P	roducts	Monitorii	ng Functionality
	Leak Detection / BIR - Accuch 1. 846397-1XX Stainless Stee	l (SS) In-Tank	Gasohol (<=15% Et	hanol)	A. 0.1 GPH st for USTs of	atic in-tank testing nly
	Probe with High Grade Poly Canister with Water Detecti Testing Capability, UL		Gasoline with <=7% 8% TBA	Methanol and	B. 0.2 GPH st for USTs of	atic in-tank testing nly
	2. 846397-2XX SS In-Tank Pro		Gasoline with <=15	% MTBE	C. 0.2 GPH C	
	Canister with Water Detect Testing Capability, UL		Gasoline with <=17	% TAME	Statistical (CSLD) for	Leak Detection USTs only
Specific Products	3. 846391-1XX SS In-Tank Pro Aluminum (AL) Canister wi Detection & 0.1 GPH Testin	th Water	Leaded Gasoline		D. No Leak De Only for US	etection / Inventory Ts & ASTs
Monitored / Product	4. 846391-2XX SS In-Tank Pro	be with AL	Mineral Spirits		E. BIR – Accu	Chart for USTs only
Compatibility	Canister with Water Detecti Testing Capability, UL	ion & 0.2 GPH	Premium Unleaded	Gasoline		
			Regular Unleaded 0	Gasoline	1	
	No Leak Detection/Inventory1. 846397-3XX (SS) with (HPC)		Gasoline with <=15	% ETBE	1	
	Water Detection & No Leak Inventory Only, UL	Detection/	Gasoline with <=12	% TBA	1	
	2. 846391-3XX SS with AL Ca		Diesel (Fuel Oil #2)		1	
	Water Detection & No Leak Inventory Only	Detection/	Aviation Gas		1	
			Kerosene (Fuel Oil	#1)		
			Bio Diesel (Low De	nsity)		
			Prob	e Interface Modu	les	
Console Compatibility	Maximum Probes / Console	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	Up to 4 - TLS-4XX	16	Sold Separately (either Factory Installed or as a Spare Module)
TLS4i (8601 Series)	4					
TLS4c (8601 Series)	2		No module required, p	probe input capabi	lity factory inst	alled
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					- 11 - 4
TLS-300C	2	1	o module required, p، No	probe input capabi	lity factory inst	alled



Stainless Steel 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 Separation Float Kit	4" (10.16cm)		
	846400-3X0 Mag Plus Gasoline Float Kit	3" (7.62cm)]	
Float Installation Kits	846400-1X0 Mag Plus Gasoline Float Kit	2" (5.08cm)	5' (1.5m),	48" (1.2m) -
	846400-0X1 Mag Plus Diesel Float Kit	4" (10.16cm)	- 10' (3.05m), 20' (6.1m)	144" (3.66m)
	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 330020-282 4" (10.16cm) Threaded NPT Riser Cap for			
Specifications	Product	Water		
Measurement Accuracy	+/- 0.0300" (0.762mm)	+/- 0.0300" (0.762	2mm)	
Resolution - One Sample Reading	+/- 0.002857" (0.072571mm)	+/- 0.002857" (0.0)72571mm)	
Minimum Measurement - 2" (5.08cm) Float Kits	3.23" (8.2cm)	0.867" (2.2cm)		
Minimum Measurement - 3" (7.62cm) Float Kits	3.04" (7.72cm)	0.630" (1.6cm)		
Minimum Measurement - 4" (10.16cm) Float Kits	3.04" / 7.0" for Phase Sep.	0.630" (1.6cm)		
Operating (Working) Temperature Range	-40 to +	122°F (-40 to +50°C)		
Third Party Evaluation /	UL, d	UL, ATEX, IECEx		
Agency Listings & Links	http://www.nwglde	.org/evals/veeder_roo	t_j.html	
Product Installation Guide Link	https://www.veeder.co	m/us/technical-docur	nent-library	
	Example Installation	on		
Ris bu	5.56cm) min. dia. manhole Probe cable er cap with cord grip shing and nut lab or packed IFPA 80	- Weatherproof junctio threads (16 cubic inc Cord grip seals	h (262.2cm³) minir	num)
A = 10" (25.4cm) mini mag plus/mag plus p installing a probe long tank diameter, increas dimension to compen (Example: a 7' (2.1m) diameter tank will use probe, in which case y (15.24cm) to minimur	robes. When ger than the the se this minimum sate. - 6" (15.24cm) an 8' (2.4m) ou must add 6"	Riser pipe: 2- (5. API schedule 40 Note: Recomme	08cm), 3- (7.62cm) depending on prob nded distance betw s at least 12" (30.44 Top view 3/4" (1.9cm) ID Side view	, or 4" (10.16cm) be type veen Bcm)

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Stainless Steel Mag Plus In-Tank Probe for Monitoring Jet Fuel Products with Water Detection in both USTs and ASTs

Probe Description & Product Application	Sta	inless Steel Mag Plus In Products with Water D				ŝ	4	*		
		Part # & Descri	ntion		Approved P	rodu	cts	Monitoring Fi	Inctiona	lity Ontions
Specific Products Monitored / Product Compatibility	1. 846 Grau Deto 2. 846 Wat 3. 846 with Cap 4. 846 Deto No Lea 1. 846 Wat 1. 846 Deto 2. 846	etection with Water Def 397-1XX Stainless Stee de Polymer (HPG) Canis ection & 0.1GPH Testing 397-2XX (SS) with (HPC ere Detection & 0.2GPH 391-1XX (SS) with Alum to Water Detection & 0.10 ability 391-2XX (SS) with (AL) ection & 0.2GPH Testing the Detection/Inventory (397-3XX (SS) with (HPC ere Detection & No Leak entory Only 391-3XX (SS) with (AL) ection & No Leak Detection	tection I (SS) with High ster with Water g Capability G) Canister with Testing Capability ninum (AL) Canister GPH Testing Canister with Water g Capability Dnly Probes G) Canister with Detection/ Canister with Water	Jet Fue	sl (incl JP8) sl (JP10)			A. 0.1 GPH sta for USTs or B. 0.2GPH sta for USTs or C. 0.2 GPH Cc Leak Detec USTs only D. No Leak De Only for US E. BIR – Accur	atic in-ta ily tic in-tar ily ontinuous tion (CSI tection / Ts & AST	nk testing hk testing s Statistical D) for Inventory
	Dett				Prohe	Inter	 face Module	26		
Console Compatibility	Maxim	num Probes / Console	Module Part #		odule cription	Мо	# of dules per Console	# of Probe Inputs per Module	Ava	ilability
TLS-450PLUS (8600 Series)		64	332812-001	Modu Inter Probes	sal Sensor ile (USM) face for s, Sensors, DPLLD		Up to 4	16	(eithe Instal	Separately er Factory led or as a e Module)
TLS4i (8601 Series)		4					I	I		
TLS4c (8601 Series)		2	No	module r	equired, pro	be ir	nput capabili	ity factory inst	alled	
TLS-350/R/PLUS		16	329356-002		ut Probe ce Module		4	4	(eithe Instal	Separately er Factory led or as a e Module)
TLS-300i		4	N I		المعربة المعرفة	he in			مالمط	
TLS-300C		2	No	vioaule r	equired, pro	oe Ir	iput capabili	ity factory inst	alled	
		Part #	& Description		Float Siz	e	Cable Lengths	Min/Max Probe Length	Ch	Min/Max emical Tank Diameter
Float Installation Kits		846400-0X1 Mag Plus	Diesel Float Kit		4" (10.16c	cm)				
		846400-3X1 Mag Plus	Diesel Float Kit		3" (7.62ci	m)	5', 10', 20'	, 48" (1.2m 144" (3.66		N/A
		846400-1X1 Mag Plus	Diesel Float Kit		2" (5.08c	m)			Ĺ	
Other Installation Access	ories	312020-952 4" (10.16 330020-282 4" (10.16								



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)	0.867" (2.2cm)
Minimum Measurement - 3" (7.62cm) Float Kits	3.04" (7.72cm)	0.630" (1.6cm)
Vinimum Measurement - 4" (10.16cm) Float Kits	3.04" (7.72cm)	0.630" (1.6cm)
Operating (Working) Temperature Range	-40 to +122	F (-40 to +50°C)
Third Party Evaluation / Agency Listings & Links	http://www.nwglde.org	<u>j/evals/veeder_root_j.html</u>
Product Installation Guide Link	https://www.veeder.com/u	us/technical-document-library
	Example Installation	
14" (35.56ci	m) min. dia. manhole Probe cable — Wea	therproof junction box with 1/2" (1.27cm) NPT ads (16 cubic inch (262.2cm³) minimum)

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