

# Product Update Notification

## Mag-FLEX Tall Tank Probe – Extended Sizes & Additional Temperature Sensors

### Overview

The Veeder-Root Magnetostrictive Mag-FLEX Tall Tank Probe sizes have been extended to now monitor taller tanks. The maximum probe length was 49 feet/15 meters and is now 72 feet/22 meters. Additional temperature sensors have also been added to all probe lengths for improved temperature accuracy. This enhanced product, paired with any Veeder-Root Automatic Tank Gauge (ATG), delivers accurate reconciliation of your most expensive on-site assets, while eliminating the safety hazard of scaling formidable heights to determine inventory levels of Aboveground Storage Tanks (ASTs).



### Product Specifications

PRODUCT MEASUREMENT		
Height Accuracy	±0.08" (±0.2cm)	
Repeatability	±0.02" (±0.05cm)	
Minimum Product Level Reading	7.3" (18.5cm)	
Float Size	1.7" (4.3cm)	
WATER MEASUREMENT		
	Standard	Optional
Height Accuracy	±0.12" (±0.3cm)	±0.12" (±0.3cm)
Repeatability	±0.02" (±0.05cm)	±0.02" (±0.05cm)
Minimum Water Level Reading	5.5" (14cm)	1.9" (4.8cm)
Float Size	1.7" (4.3cm)	4" (10.2cm)
TEMPERATURE MEASUREMENT		
Operating Range	-40°F to 140°F (-40°C to 60°C)	
Accuracy	±0.36°F (±0.2°C) @ -40°F (-40°C) to 185°F (85°C) ±0.18°F (±0.1°C) @ -4°F (-20°C) to 131°F (55°C)	
Repeatability	±0.5°F (±0.5°C)	
Resolution	0.1°F (0.1°C)	
Thermistors	5 Thermistors	
INSTALLATION DETAILS		
Probe Shaft Length	Up to 72' (22m) tank height	
Tank Adapter/Tank Entry	R 1.5" (3.8cm) screw-in unit	
Height Adjustment Range	±9.8" (24.9cm)	
Electrical Connection	M12 plug-in connection	
Protection Class	IP68	
SENSOR MATERIALS		
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	
GENERAL INFORMATION		
Options	Tank adapter made of stainless steel. Weight made of stainless steel.	
Certifications	ATEX, IECEx, UL, cUL	

### FEATURES & BENEFITS

- **Single point of monitoring** – Automate product level, water level and temperature monitoring of storage tanks with a Veeder-Root fuel monitoring system.
- **Water detection** – The standard water float included detects water at the 5.5" (14cm) level. An optional low-level water float is also available for water detection at the 1.9" (4.8cm) level, which requires a 4" (10.2cm) tank opening.
- **Wireless & Wired applications** – Save installation time and cost with wireless technology, which eliminates wiring from the tank to the ATG. Where wireless is not practical, Mag-FLEX accommodates traditional wired installation as well.
- **Scalable solution to various site profiles** – The Veeder-Root ATG portfolio offers a wide range of consoles to best suit various site configurations.
- **Flexible, corrugated probe design** – Provides for easy transportation and installation.
- **Stainless steel probe shaft** – Provides increased protection of the mag wire and probe durability.

## ► Console Compatibility

WIRED VERSION				
Part Number	Console Type	Software Version	Tank Capacity	
			Gallons	Liters
08895x1-4xx, 5xx and 6xx	TLS-450PLUS	6A	264,172,052	999,999,999
	TLS4 / TLS4B	6A		
WIRELESS VERSION				
Part Number	Console Type	Software Version	Tank Capacity	
			Gallons	Liters
08895x1-1xx, 2xx and 3xx	TLS-450PLUS	5B	264,172,052	999,999,999
	TLS4 / TLS4B	5B		
	TLS-350 Series	22	999,999	3,784,996
	TLS-300 Series	22		

**Note:** Liters may be increased by programming in English units first and switching the console to Metric units.

## ► Ordering Information

**Mag-FLEX Tall Tank Probes** are supplied as a complete assembly under a single part number that includes the following items:

- Flexible magnetostrictive probe
- Product float
- Integral stainless steel weight and magnetic base
- Probe leader cable (6ft/1.8m)
- Water float, if applicable
- Wall guide included in low level float kit, if applicable

**Mag-FLEX Wireless:** Mag-FLEX probes are fully compatible with Veeder-Root TLS-RF Wireless 2 systems.

**Purchase Order Requirements:** All purchase orders must be submitted with a completed Mag-FLEX order entry worksheet. The order entry worksheet can be obtained by contacting Customer Service.

**Note:** New part numbers are replacing the existing Mag-Flex Probe part numbers. Refer to the list attached to this notification for details.

### Support

- +1.814.695.4476 – Customer Service (International)
- +1.800.873.3313 – Customer Service
- +1.800.323.1799 – Technical Support
- +1.800.234.5350 – Customer Service
- [customerservice@veeder.com](mailto:customerservice@veeder.com)



<b>Mag-FLEX Probes with Water and Product Floats for Gasoline Tanks – Wired, UL/cUL</b>		
<b>Old Part Number</b>	<b>New Part Number</b>	<b>Description</b>
0889590-400	0889591-400	Mag-FLEX probe, gasoline float (5.0 to 6.5'), wired, UL/cUL
0889590-401	0889591-401	Mag-FLEX probe, gasoline float (6.6 to 9.8'), wired, UL/cUL
0889590-402	0889591-402	Mag-FLEX probe, gasoline float (9.9 to 13.1'), wired, UL/cUL
0889590-403	0889591-403	Mag-FLEX probe, gasoline float (13.2 to 16.4'), wired, UL/cUL
0889590-404	0889591-404	Mag-FLEX probe, gasoline float (16.5 to 19.6'), wired, UL/cUL
0889590-405	0889591-405	Mag-FLEX probe, gasoline float (19.7 to 22.9'), wired, UL/cUL
0889590-406	0889591-406	Mag-FLEX probe, gasoline float (23.0 to 26.2'), wired, UL/cUL
0889590-407	0889591-407	Mag-FLEX probe, gasoline float (26.3 to 29.5'), wired, UL/cUL
0889590-408	0889591-408	Mag-FLEX probe, gasoline float (29.6 to 32.8'), wired, UL/cUL
0889590-409	0889591-409	Mag-FLEX probe, gasoline float (32.9 to 36.0'), wired, UL/cUL
0889590-410	0889591-410	Mag-FLEX probe, gasoline float (36.1 to 39.3'), wired, UL/cUL
0889590-411	0889591-411	Mag-FLEX probe, gasoline float (39.4 to 42.6'), wired, UL/cUL
0889590-412	0889591-412	Mag-FLEX probe, gasoline float (42.7 to 45.9'), wired, UL/cUL
0889590-413	0889591-413	Mag-FLEX probe, gasoline float (46.0 to 49.2'), wired, UL/cUL
X	0889591-414	Mag-FLEX probe, gasoline float (49.3 to 52.5'), wired, UL/cUL
X	0889591-415	Mag-FLEX probe, gasoline float (52.6 to 55.7'), wired, UL/cUL
X	0889591-416	Mag-FLEX probe, gasoline float (55.8 to 59'), wired, UL/cUL
X	0889591-417	Mag-FLEX probe, gasoline float (59.1 to 62.3'), wired, UL/cUL
X	0889591-418	Mag-FLEX probe, gasoline float (62.4 to 65.6'), wired, UL/cUL
X	0889591-419	Mag-FLEX probe, gasoline float (65.7 to 68.8'), wired, UL/cUL
X	0889591-420	Mag-FLEX probe, gasoline float (68.9 to 72.1'), wired, UL/cUL

<b>Mag-FLEX Probes with Water and Product Floats for Diesel Tanks – Wired, UL/cUL</b>		
<b>Old Part Number</b>	<b>New Part Number</b>	<b>Description</b>
0889590-500	0889591-500	Mag-FLEX probe, diesel float (5.0 to 6.5'), wired, UL/cUL
0889590-501	0889591-501	Mag-FLEX probe, diesel float (6.6 to 9.8'), wired, UL/cUL
0889590-502	0889591-502	Mag-FLEX probe, diesel float (9.9 to 13.1'), wired, UL/cUL
0889590-503	0889591-503	Mag-FLEX probe, diesel float (13.2 to 16.4'), wired, UL/cUL
0889590-504	0889591-504	Mag-FLEX probe, diesel float (16.5 to 19.6'), wired, UL/cUL
0889590-505	0889591-505	Mag-FLEX probe, diesel float (19.7 to 22.9'), wired, UL/cUL
0889590-506	0889591-506	Mag-FLEX probe, diesel float (23.0 to 26.2'), wired, UL/cUL
0889590-507	0889591-507	Mag-FLEX probe, diesel float (26.3 to 29.5'), wired, UL/cUL
0889590-508	0889591-508	Mag-FLEX probe, diesel float (29.6 to 32.8'), wired, UL/cUL
0889590-509	0889591-509	Mag-FLEX probe, diesel float (32.9 to 36.0'), wired, UL/cUL
0889590-510	0889591-510	Mag-FLEX probe, diesel float (36.1 to 39.3'), wired, UL/cUL
0889590-511	0889591-511	Mag-FLEX probe, diesel float (39.4 to 42.6'), wired, UL/cUL
0889590-512	0889591-512	Mag-FLEX probe, diesel float (42.7 to 45.9'), wired, UL/cUL
0889590-513	0889591-513	Mag-FLEX probe, diesel float (46.0 to 49.2'), wired, UL/cUL
X	0889591-514	Mag-FLEX probe, diesel float (49.3 to 52.5'), wired, UL/cUL
X	0889591-515	Mag-FLEX probe, diesel float (52.6 to 55.7'), wired, UL/cUL
X	0889591-516	Mag-FLEX probe, diesel float (55.8 to 59'), wired, UL/cUL
X	0889591-517	Mag-FLEX probe, diesel float (59.1 to 62.3'), wired, UL/cUL
X	0889591-518	Mag-FLEX probe, diesel float (62.4 to 65.6'), wired, UL/cUL
X	0889591-519	Mag-FLEX probe, diesel float (65.7 to 68.8'), wired, UL/cUL
X	0889591-520	Mag-FLEX probe, diesel float (68.9 to 72.1'), wired, UL/cUL