

**Reliable  
Solutions**



**Wireless  
Technology**

## TLS-RF Wireless System

Reliable Wireless Technology

### Automated tank monitoring without site disruption

Whether your need is for continuous inventory management, certified tank testing or leak sensor monitoring, Veeder-Root's TLS-RF Wireless System can provide a cost effective solution when the disruption of breaking up the site to install field wiring is not viable.

TLS-RF solves many of the problems associated with retrofitting automated tank gauging or upgrading existing systems. It's quick and easy to install and designed to work with any Veeder-Root Automatic Tank Gauge. Due to the high cost of site disruption, operators wanting to retrofit their sites with an ATG system often postpone installation until such time as other redevelopment work is scheduled. Now there is no longer any need to wait, and the benefits of automated monitoring can be enjoyed straight away.

### Proven performance in underground storage tanks

The retail petrol station environment, where ATG probes operate in underground storage tanks, is a challenging one for wireless data communications. Site operators require tank information at any time throughout the

day or night, and leak monitoring must operate continually to be effective. TLS-RF was developed through a rigorous test program to ensure that tank monitoring and inventory data is consistently available on demand, around the clock.

Test sites with the Veeder-Root Wireless System were carefully selected to represent a broad range of operating profiles, including severe weather conditions and difficult site configurations. RF data was collected daily, which together with surveillance of some sites enabled common causes of data gaps to be identified. Extensive data evaluation and design enhancements have produced a best in class product, robust and reliable enough for continuous monitoring.

### TLS-RF Wireless

The TLS-RF System utilises industrial grade radios using the European license-free 869 MHz frequencies, enabling both Mag Probes and Mag Sump Sensors to communicate with any TLS Console already capable of interfacing with Magnetostrictive Probes or Sensors. Transmitters and battery housings, located in the tank or sump chamber, transmit directly to other system components. There is no requirement to modify the

access chamber lid or forecourt surface. Receivers and repeaters are placed at above ground locations and transmit the signals they receive to the TLS-RF Console Interface Box. The Console Interface Box then converts the radio signal into TLS compatible data.

### Approvals

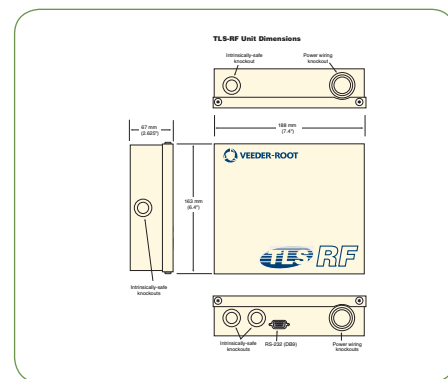
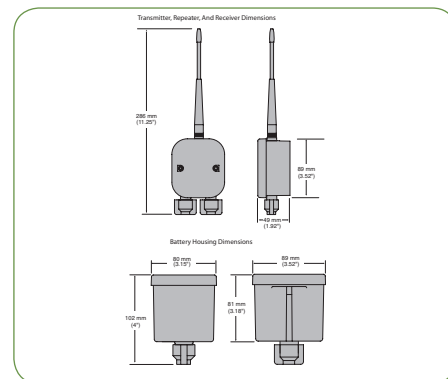
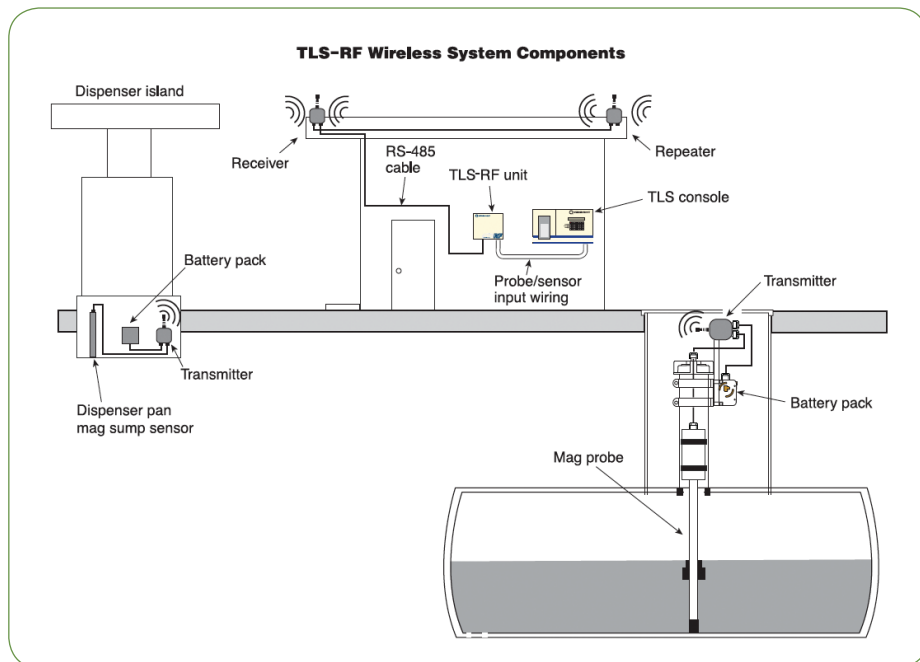
- > ATEX (DEMKO 06 ATEX 137478X)
- > R&TTE compliant (ETSI-EN 300-220 Part 3)

### Features and Benefits

Inventory control and sensor monitoring without breaking up the site:

- > Easy installation
- > Full TLS functionality\*
- > Battery life up to two years
- > NEMA 6 equivalent external components
- > Compatible with standard TLS consoles

\* Continuous inventory monitoring, Certified SLD (Static) & CSLD (Continuous) Leak Detection for single tanks and Mag Sump Sensor monitoring, where ambient interference is not a factor.



These specifications are for guidance only and Gilbarco Veeder-Root reserves the right to change, without notice, these specifications in accordance with its policy of continued product improvements.

## Gilbarco Veeder-Root Products – behind every successful forecourt

Gilbarco Veeder-Root is the largest supplier in the world representing the leading brands of solutions and technologies that provides convenience, control and environmental integrity to retail fuelling and adjacent markets. Gilbarco Veeder-Root is the only manufacturer that can provide all your fuel forecourt solutions.



### Pumps and Dispensers

Designed to be at the core of retail forecourt solutions centering on quality and innovation, Gilbarco Veeder-Root's broad portfolio of pumps and dispensers are proven to deliver profitability for our customers today and tomorrow.



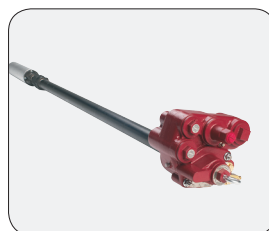
### Automatic Tank Gauging

Innovative tank monitoring and loss detection to automate wet stock management, environmental control and risk management across the network and allow centralised data management to optimise operational profitability.



### Payment

Secure and flexible payment solutions to create new business at the pump.



### Submersible Pumps

The most efficient way to pump fuel on a forecourt; consistent flow rates, no vapour lock and minimal maintenance.



### Automation

Solutions that drive efficiencies, prevent fraud, improve customer experiences and increase profitability.

