

**Incomparable technology
and resources.**



**Total Management
Control.**

TLS-450

Automatic Tank Gauge System

The TLS-450 is an automatic tank gauge system that offers advanced technology and resources specially projected to deliver the higher precision in the industry and the maximum flexibility for the full operation of the fuel stations and other factories and industries.

This system allows a complete inventory management, delivery and alarms anywhere, using any device connected to the Internet, such as cell phones, computers, laptops or tablets.

It contains a modular structure, that can be expanded to monitor your business' growth and/or any modifications on the environmental legislation.

The TLS-450 is the best automatic gauge system investment you can make today thinking about tomorrow.

Main Features and Benefits:

- > Stock and information management of fuel tank information from anywhere, using any device connected to the Internet.
- > Customized environmental inspection reports, according to the establishment needs.
- > Data storage up to 3 years.
- > The regular configuration can be customized, including passwords and display methods, which prevents non-authorized access and alterations that are automatically informed by email.
- > Easy access to the majority of the system's functionalities with one single screen touch.
- > Easy and rapid programming of the majority of the sensors on one single screen.
- > The factory setting allows a pattern configuration in all the fuel network or industrial establishment. The parameters can be reestablished locally or remotely.
- > Allows the password customization for multiple level access, alarms, email notification and reports, to reassure, through the system's menu access that all the establishments are under control.
- > Fuel leak detection.
- > Supply line leak detection.
- > Fuel steam monitoring.
- > Automatic Inventory updates, by email or Internet, locally or remotely.
- > Customized alarms and help menus guarantee a better decision making and effective plan to action.
- > Alarms and emails programmable to be sent by email.
- > In case of fuel leak, detection of water in the tank, and/or dry running conditions,

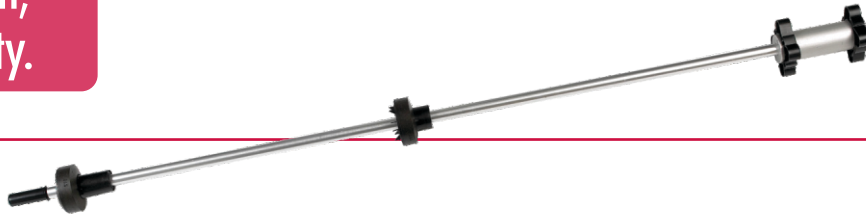
the submersible pumps are automatically shut off.

- > AccuChart II™ is a powerful diagnosis tool that easily allows checking on the tank status and minimizes errors on the reconciliation process, saving financial and timing resources. .

Main Technical Features:

- > Easy network access and integration.
- > Easy installation: customized configuration, universal connection. modules and "plug & play" (USM, I/O).
- > Supports up to 64 sensors — 32 of a single sensor.
- > Remote access utilizing any device connected to the Internet.
- > 7.4" Touch Screen password protected for local access, preventing operational errors
- > Easy to use: graphic interface and intuitive programming.
- > CPU with advanced technology, supporting future applications.
- > RS-485, USB and TCP/IP data communication
- > Relays utilization for inputs and outputs.
- > High speed thermal printer, with 80 columns, integrated to the console. It can also be connected to a regular printer through a remote printing interface.
- > Fax/modem interface, which allows the console autodialing for the fuel station and vice versa (optional).
- > Free and easy firmware update.

Tradition,
reliability.



Accurate
information.

Veeder-Root's Magnetostrictive Probes

Veeder-Root's Magnetostrictive Probe, a by-word instate-of-art gauging technology, was designed to measure fuel inventory of underground storage tanks and aboveground storage tanks (upon request) that require maximum accuracy and reliability for inventory management.

The probe detects water and measures the tank temperature. These functionalities combined with high accuracy of the magnetostrictive principle ensure a reliable measurement of the existing fuel inventory in the tank. This probe can detect leaks of 0.38 l/h or 0.76 l/h in leak detection tests, with 95% probability of valid alarms and up to 5% of false alarms.

Designed to be compatible with all types of fuel, the Magnetostrictive Probe is equipped with a monitoring circuit, a Veeder-Root exclusive device that ensures the probe integrity and operation, informing the gas station about any failure.

Main Features:

- > Stainless steel body for all types of application.
- > Operating temperature: -40°C to 50°C.
- > Reduced probe canister diameter with adjustable spacers for quick and easy installation in 2", 3" or 4" pipes.
- > For special fuel measurement, verify probe compatibility.

Models	Leak Detection	Temperature Measurement	Water Measurement
Mag 1	Yes - 0,38 l/h rate	Yes	Yes
Mag 2	Yes - 0,76 l/h rate	Yes	Yes
Mag 3	No	Yes	Yes

Precision, safety
and control.



Water and
hydrocarbon
detection.

Veeder-Root's Sump and Interstitial Sensors

SUMP SENSOR

The Veeder-Root Sump Sensor detects the presence of liquids in the containment sumps, ensuring your gas station and the environment protection. It is easy to install and compatible with TLS-450, TLS4, TLS-350R, TLS-350, ProPlus and TLS-300 automatic tank gauge systems.

This sensor can be installed in fuel tanks sumps, pump sumps and filter sumps.

Main Features:

- > Composition: PVC pipe Schedule 40
- > Type: magnetic and hermetically sealed
- > Electric power supply: intrinsically safe, provided by the Veeder-Root systems
- > Contact supply: 15 watts
- > Operating temperature: -40°C to +70°C
- > Storage temperature: -40°C to +70°C
- > Switch stroke: 22,2 mm for contact
- > Each sump sensor is supplied with an assembly kit

INTERSTITIAL SENSOR FOR DOUBLE WALL FUEL TANKS

The Veeder-Root Interstitial Sensor detects the presence of liquids in the interstice of double wall fuel tanks, also known as jacketed tank. Liquids in the interstice can indicate a fuel leak, which is very dangerous.

Main Features:

- > Operating temperature: -20°C a +70°C with hydrocarbons; 0°C a 70°C with unfrozen water
- > Storage temperature: -40°C a +75°C
- > Sensor dimensions: 63,5 mm high x 38,1 mm diameter
- > Cable length: 5 meters

Gilbarco Veeder-Root reserves the right to change one or more specifications of its fuel pumps with no prior notice whenever improvements are made. Be sure to check the current product specification at the time of purchase.

The success of your business must be supported by solutions and technology at your fingertips. You need a partner. Someone who listens to you. Someone who can meet your needs, your customers' needs, and your financial needs. We have all the products and services you are looking for. Count on us to help you and provide any further information.

