

Integrated Solutions



**Total
Access**

TLS-450

Access or monitor your sites via any web browser on a PC or PDA

Total Access

Wherever you are, you can access or monitor your sites via any Web browser on your PC or PDA. And using the TLS-450 Direct Access™ Software on a PC, you can securely control and modify configuration, upgrades and diagnostics..

Total Control

To make sure that all of your sites are under control, you can customize multi-level password access, alarms, email notifications, reports, built-in "Help" and dashboard views to make sure all sites are under control.

Master Set up

Factory-loaded setup on the TLS - 450 offers uniform configuration across all sites, including passwords. This blocks unauthorized changes to your set up and notifies you of any modifications.

Extended Storage

Back up your reports, alarms, compliance, inventory, delivery and reconciliation data for up to three years. Option 5: AccuChart™ AccuChart™ calibrates and updates tank charts for accurate inventory level readings, while adjusted delivery reporting makes sure dispensing during delivery is considered.

AccuChart™

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Automatic Reconciliation

Automatically manage your inventory with no guesswork about the sources of variance. Your sites will benefit from optimum inventory, better delivery scheduling and reduced risk of outages.

Technical specifications

System Capabilities

- > Inventory and delivery monitoring and reporting
- > Up to 3 years of data history
- > Replenishment recommendation
- > Emergency generator applications and reports
- > Automatic business inventory reconciliation
- > Enhanced AccuChart™ automatic tank calibration and adjusted delivery
- > Interstitial/sump monitoring capabilities
- > Dispenser sump monitoring capability
- > Vapor well monitoring capability
- > Groundwater monitoring capability
- > Audible and visual alarm capabilities
- > Custom alarms
- > Email notification and reporting
- > Fax notification and reporting
- > Computer-to-computer notification and reporting
- > Multilevel password access
- > Customized Master Setup
- > Continuous Statistical Leak Detection Software – 0.2 GPH
- > 3.0 GPH, 0.1 GPH and 0.2 GPH in-tank leak detection
- > 3.0 GPH, 0.1 GPH and 0.2 GPH line leak detection capabilities
- > Leak testing and reconciliation for manifolded tanks
- > Sensor status report
- > 7.4" full VGA LCD touch screen
- > High resolution and high speed printer
- > Relay output/external input module
- > Universal sensor and probe module
- > Universal compartments support universal sensor and probe module, and relay output/external input module
- > Universal EDIM and CDIM modules
- > Built-in relay
- > Supports multiple languages
- > Plug and play. Intuitive and user-friendly interface
- > Single touch access to most functions
- > On-board Help
- > Custom on-board "Help"
- > Custom reports
- > Web remote access
- > TLS-450 Direct Access™ Software
- > Software remote upgrade
- > 9 communication ports
- > Internal auto-dial fax (SiteFax™)/modem communications
- > Ethernet communications
- > RS-232 data communications
- > RS-485 data communications
- > Satellite data communications
- > USB ports

Standard Models

Description

TLS-450 console with 80 column high speed thermal printer and 7.4" full VGA LCD touch screen

Supports up to 64 sensors

Supports up to 32 probes

One built in relay

TLS-450 Interface Modules

TLS-450 contains 4 compartments in which the universal sensor/probe or Input/Output interface modules can be installed interchangeably. One module per compartment.

Description	Function
LOW-POWER/HIGH-POWER COMPARTMENTS (limit 4 modules per console)	
Universal sensor/probe interface module	16 input module, supports probes and sensors
Universal Input/Output interface module	5 dry contact output relays/4 low voltage inputs (<=12Vdc)/5 high voltage inputs (<=240Vac)
COMMUNICATION COMPARTMENT (limit 5 modules per console)	
SiteFax™ interface module	Allows hookup to most remote facsimile or modem equipment
Ethernet interface module	Provides connectivity to local and wide area networks (LAN/WAN)
USB interface module	Supports USB thumb drive and external printers
USB/Ethernet dual interface module	Provides connectivity to local and wide area networks(LAN/WAN). Supports USB thumb drive and external printers
RS-232* dual interface module	Provides two 9-pin D-connectors for data transmission to P.O.S. terminal or computer
RS-232*/RS-485 dual interface module	Provides a 9-pin D-connector and an 8-position RJ45 D-connector for data transmission to P.O.S. terminal or computer
Single RS-232* interface module	Provides a 9-pin D-connector for data transmission to P.O.S. terminal, computer or V-Sat network
DISPENSER INTERFACE MODULES	
Universal Electronic Dispenser Interface Module (EDIM)	Supports all systems that use point-to-point loop
Universal Current Loop Dispenser Interface Module (CDIM)	Supports all systems that use current loop

*Supports RS-232 or satellite

Specifications

Operating Temperature Range	0°C to 45°C (32°F to 118°F)
Storage Temperature Range	-10°C to 45°C (15°F to 118°F)

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.



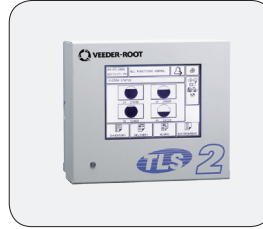
Payment

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



Automation

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



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.



Submersible Pumps

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

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