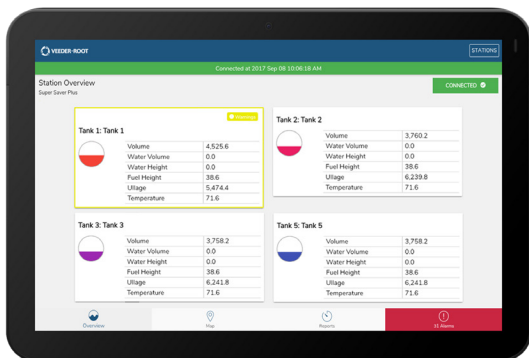


TLS-450PLUS Automatic Tank Gauge

The Fuel Management System to Grow Your Business

Why the TLS-450PLUS?

The TLS-450PLUS Automatic Tank Gauge (ATG) provides the most comprehensive site data for advanced fuel asset management. Combining industry leading algorithms with enhanced security, real-time notification, and anywhere anytime access, the TLS-450PLUS keeps your customer's site running profitably. The TLS-450PLUS is ideal for retail and commercial/industrial applications that have multiple tanks, requiring more than 12 probe and sensor inputs.



▶ MAINTAIN CONTROL OF YOUR FUELING OPERATIONS

- **Inspection ready compliance** – easy access to all federal, state, and local agency reports.
- **Remote connectivity** – monitor your site performance, receive real-time alerts, and access compliance data via web-enabled devices – anytime, anywhere, with a wide range of options including THE PLUS VIEW app, THE REMOTE VIEW app, Web-Enabled Interface and Managed Services with cloud-based fuel management through Insite360.
- **Data protection** – store up to 3 years data and protect it from power outages, battery replacements or software upgrades.
- **Security controls** – partitioned Ethernet networks, customized user access, and Secure Socket Layer (SSL) encrypted connectivity to keep your network safe.

▶ OPERATE AT PEAK EFFICIENCY

- **Remote software download** – hassle-free access to software updates.
- **Logistics visibility** – increase inventory management awareness to avoid runouts and haulbacks.
- **Faster problem resolution** – diagnose and troubleshoot issues remotely to understand ongoing situations better and avoid unnecessary dispatch.
- **Customized alarms** – preprogram alarm alerts to provide scenario-specific information to predetermined individuals.
- **Graphical User Interface (GUI)** – designed with features for ease of use, including workflow wizard, context sensitive help and user-defined favorites.



| TLS-450PLUS (UL/cUL) Part Numbers | |
|-------------------------------------|------------------------------------------------------|
| Application Software | |
| 333545-001 | TLS-450PLUS application software |
| Hardware* | |
| 860091-301 | TLS-450PLUS touch screen console with printer |
| 860091-401 | TLS-450PLUS touch screen console without printer |
| 860091-001 | TLS-450PLUS console without display, without printer |
| Interface Modules | |
| 332812-001 | Universal sensor/probe interface module |
| 332813-001 | Universal input/output interface module |
| 333564-001 | 10-amp controller module |
| Communication Modules | |
| 332818-001 | Sitefax interface module |
| 332866-001 | Single RS-232 interface module |
| 332868-001 | RS-232 dual interface module |
| 332870-001 | RS-232/RS-485 dual interface module |
| Feature Enhancement Software | |
| 332972-006 | Continuous Statistical Leak Detection (CSLD) |
| 332972-007 | Ultimate Testing Line Leak Detection for DPLLD |
| 332972-008 | Risk Management Line Leak Detection for DPLLD |
| 332972-009 | Base Compliance Line Leak Detection for DPLLD |
| 332972-018 | Timed Sudden Loss Detection |
| 333149-001 | BIR/AccuChart TLS-450PLUS EDIM factory installed |
| 333580-001 | BIR/AccuChart TLS-450PLUS CDIM factory installed |
| 333581-001 | BIR/AccuChart TLS-450PLUS LVDIM factory installed |
| 333582-001 | BIR/AccuChart TLS-450PLUS MDIM factory installed |

* Includes a 2-port RS-232 Module, a 3-port Ethernet Module and a 2-port USB Module.

CAPABILITIES

- **AccuChart 3.0 Tank Calibration** – utilizes enhanced geometric tank chart modeling for the TLS-450PLUS with optional restricted calibration range to perform calibration. Chart volumes are calculated using adjustable geometry parameters: diameter, capacity, end shape, tilt and probe offset.
- **Business Inventory Reconciliation (BIR)** – improves business decisions by combining meter transaction sales with AccuChart 3.0 Tank Calibration to better understand the site variance. It includes automated reporting on: throughput thresholds, delivery thresholds, capacity thresholds, custom thresholds.
- **Digital Pressurized Line Leak Detection (DPLLD)** – provides advanced line leak detection to meet the capacity of growing fuel sites, now certified up to 1,178 gallons of capacity. The DPLLD equipment performs a 3.0 gph line leak test following each dispense. With the proper software enhancement feature installed, the DPLLD equipment will also perform 0.2 and/or 0.1 gph line tests to meet your regulatory needs, eliminating the need for separate annual line leak testing.
- **Built-in Data Logging** – enables approved data transfer for wet stock management.
- **Timed Sudden Loss Detection** – monitors unexpected changes in inventory, exposing possible issues including theft during quiet periods.
- **Diesel Exhaust Fluid (DEF) Recirculation** – provides a recirculation and/or Temp Control heat trace system to prevent DEF product from freezing or overheating in lines that utilize DEF in bulk dispensing systems.
- **Intelligent Pump Control (IPC)** – allows the TLS-450PLUS to display and report Submersible Turbine Pump (STP) activity through a direct communication link between a STP pump controller and the TLS-450PLUS system via a RS-485 connection. This software feature is available only in the TLS-450PLUS platform.

INTEGRATED SITE SOLUTIONS

The TLS-450PLUS ATG and STP control boxes act as the interface between the STP and the dispenser, while numerous sensors and probes monitor various conditions to ensure the fueling system remains healthy. If an abnormal state is detected, the TLS-450PLUS ATG will record a condition result and generate an audible and visual alarm to notify the store operator. Remote connectivity options for the TLS-450PLUS ATG ensure that critical site statuses, such as inventory and alarm activity are available to site managers when they are not onsite. Stay connected, secure, and compliant with Veeder-Root's Integrated Site Solutions.

