





Installation Reference

You must reference the appropriate documents in the table below for installation instructions and to plan and install wiring that will connect the sensor to the console.



Important Notice: Failure to install this product in accordance with its instructions and warnings will result in voiding of all warranties connected with this product and may damage the environment.

| Equipment | UL/cUL Control Drawing Document No. | Manual No. |
|--|-------------------------------------|-------------------|
| ASSOCIATED APPARATUS | | |
| TLS–450/8600/ TLS–450PLUS | 331940–008 | 577013–934 |
| TLS–350, TLS–350R | 331940–011 | 576013–879 |
| TLS–300 | 331940–013 | 576013–879 |
| TLS–50 | 331940–014 | 577013–608 |
| TLS2 | 331940–014 | 577013–756 |
| TLS–IB | 331940–014 | 577013–719 |
| TLS4/8601 | 331940–018 | 577014–022 |
| TLS–XB/8603 | 331940–019 | 577014–033 |
| INTRINSICALLY SAFE APPARATUS FOR WIRELESS APPLICATIONS | | |
| Tank Gauge Accessories | 331940–012 | 577013–964 |

Contractor Certification Requirements

Veeder–Root requires the following minimum training certifications for contractors who will install and setup the equipment discussed in this manual:

Installer Certification (Level 1): Contractors holding valid Installer Certification are approved to perform wiring and conduit routing; equipment mounting; probe, sensor and carbon canister vapor polisher installation; wireless equipment installation; tank and line preparation; and line leak detector installation.

Technician Certification (Level 2/3): Contractors holding valid Technician Certifications are approved to perform installation checkout, startup, programming and operations training, system tests, troubleshooting and servicing for all Veeder–Root Series Tank Monitoring Systems, including Line Leak Detection. In addition, Contractors with the following sub–certification designations are approved to perform installation checkout, startup, programming, system tests, troubleshooting, service techniques and operations training on the designated system.

- Wireless 2
- Tall Tank

VR Vapor Products Certification: Contractors holding a certification with the following designations are approved to perform installation checkout, startup, programming, system tests, troubleshooting, service techniques and operations training on the designated system.

- ISD – In Station Diagnostics
- PMC – Pressure Management Control
- CCVP – Veeder–Root Vapor Polisher
- Wireless – ISD/PMC Wireless
- A current Veeder–Root Technician Certification is a prerequisite for the VR Vapor Products course.

Warranty Registrations may only be submitted by selected Distributors.

Sensor Type Programming Table for TLS Consoles

| Sensor | Form Number | Sensor Category (Location) | TLS-3XX Series Sensor Type | TLS4/8601 Series TLS-450 and TLS-450PLUS Sensor Model |
|--|------------------------------------|----------------------------|---|--|
| Discriminating Dispenser Pan and Sump Sensors - Standard | 794380-322 (DPS), 794380-352 (CSS) | Sump/Pan | Liquid Sensor Setup: Sensor Type - Dual Float Discriminating | Device Setup Liquid Sensor: Model - Dual Float Discriminating |
| Discriminating Dispenser Pan and Sump Sensors - Optical | 794380-320 (DPO), 794380-350 (CSO) | Sump/Pan | 3-Wire C.L. Setup: Sensor Mode - Standard | Device Setup Type B Sensor: Model - Ultra/Z-1 (Standard) |
| Mag Sump Sensor | 857080-XXX | Sump/Pan | Smart Sensor Setup: Sensor Category- Mag Sensor | Device Setup MAG Sensor |
| Solid-State Dispenser Pan and Containment Sump | 794380-321 (DP); 794380-351 (CS) | Sump/Pan | 2-Wire C.L. Setup: Sensor Type - Discrim Interstitial | Device Setup Type A Sensor: Model - Discrim. Interstitial |
| Piping Sump | 794380-208 | Sump/Pan | Liquid Sensor Setup: Sensor Type - Tri-State Liquid | Device Setup Liquid Sensor: Model - Tri-State |
| Position-Sensitive Sensor High Alcohol Compatible! | 794380-323 | Sump/Pan | Liquid Sensor Setup: Sensor Type - Tri-State Liquid | Device Setup Liquid Sensor: Model - Tri-State |
| Discriminating Interstitial Sensor for Double-Wall Fiberglass Tanks | 794380-343 | Annular Space | 2-Wire C.L. Setup: Sensor Type - Discrim Interstitial | Device Setup Type A Sensor: Model - Discrim. Interstitial |
| Interstitial Sensors for Double-Wall Fiberglass Tanks | 794380-409 | Annular Space | Liquid Sensor Setup: Sensor Type - Tri-State Liquid | Device Setup Liquid Sensor: Model - Tri-State |
| Interstitial High Alcohol Sensor for Double-Wall Fiberglass Tanks High Alcohol Compatible! | 794380-345 | Annular Space | 2-Wire C.L. Setup: Sensor Type - Ultra 2 | Device Setup Type A Sensor: Model - Ultra 2 |
| Interstitial Sensors for Steel Tanks | 794380-4X0 | Annular Space | Liquid Sensor Setup: Sensor Type - Tri-State Liquid | Device Setup Liquid Sensor: Model - Tri-State |
| Position Sensitive Interstitial Sensor for Steel Tanks High Alcohol Compatible! | 794380-333 | Annular Space | Liquid Sensor Setup: Sensor Type - Tri-State Liquid | Device Setup Liquid Sensor: Model - Tri-State |
| Interstitial High Alcohol Sensors for Steel Tanks High Alcohol Compatible! | 794380-430 | Annular Space | Liquid Sensor Setup: Sensor Type - Tri-State Liquid | Device Setup Liquid Sensor: Model - Tri-State |
| MicroSensor High Alcohol Compatible! | 794380-344 | Annular Space | 2-Wire C.L. Setup: Sensor Type - Discrim Interstitial | Device Setup Type A Sensor: Model - Discrim Interstitial |
| Hydrostatic Reservoir | 794380-301 (1 float) | Annular Space | Liquid Sensor Setup: Sensor Type - Tri-State Liquid | Device Setup Liquid Sensor: Model - Tri-State |
| | 794380-303 (2 float) | Annular Space | Liquid Sensor Setup: Sensor Type - Dual Float Hydrostatic | Device Setup Liquid Sensor: Model - Dual Float Hydrostatic |
| Single-Point Mini Hydrostatic Sensor for Double Wall Sumps | 794380-304 | Annular Space | Liquid Sensor Setup: Sensor Type - Tri-State Liquid | Device Setup Liquid Sensor: Model - Tri-State |
| Vapor | 794390-700 | Monitor Well | Vapor Sensor Setup | Device Setup Vapor Sensor |
| Groundwater | 794380-62X | Monitor Well | Groundwater Sensor Setup | Device Setup Groundwater Sensor |
| Oil/Water Separator | 794690-XXX | Oil/Water Separator Tank | Liquid Sensor Setup: Sensor Type - Dual Float Discriminating | Device Setup Liquid Sensor: Model -Dual Float Discriminating |