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|---|--|--|---|---|---------------|
| Console Description | The TLS-350R Automatic Tank Gauge offers the benefits of in-tank inventory, leak detection, and compliance. It is intended for retail and commercial operations. | |  | | |
| TLS-350R Consoles, Standard Hardware & Software | Part # & Description | | Software Enhancement Modules | | |
| | <ol style="list-style-type: none"> 848290-122 TLS-350R Console with Integral Printer- 120V UL/cUL 848290-102 TLS-350R Console without Integral Printer- 120V UL/cUL <p>NOTE: To enable Business Inventory Reconciliation (BIR) and Variance Analysis you will need to order a Dispenser Interface Module (DIM) – see POS application guide to determine the correct DIM. Additionally a memory expansion module (333760-201) is required to support BIR for manifolded tanks or consoles with more than 8 probes.</p> | | <ol style="list-style-type: none"> 330160-002 Continuous Statistical Leak Detection (CSLD) for TLS-350 Series Consoles 330160-003 Fuel Manager for TLS-350 Series Consoles 330160-010 Ultimate Testing: Pressurized Line Leak Detection (PLLD) for TLS-350 Series Consoles 330160-060 Risk Management: Wireless/Pressurized Line Leak Detection (PLLD) for TLS-350 Series Consoles 330160-050 Base Compliance: Wireless/Pressurized Line Leak Detection (PLLD) for TLS-350 Series Consoles 330160-004 In-Station Diagnostics (ISD): for TLS-350 Series Consoles | | |
| TLS-350R Device Modules | Low Power Compartment Interface Modules (limit 8 per console unless otherwise noted) | | | High Power Compartment Interface Modules (limit 8 per console unless otherwise noted) | |
| | Description | Part # | Interfacing Device Part #'s | Description | Part # |
| | Four-Input Probe Module | 329356-002 | Used for interface to all Mag Probes | Four-Relay Output Module – Provides dry contact switch for 120 VAC source (used for positive shutdown or external alarms) | 329359-001 |
| | Eight-Input Smart Sensor Module | 329356-004 | Used to Interface with Mag Sump Sensors only | Two-Input/Two-Relay Output Interface – 2 inputs provide 12VDC - 35VDC rated input, outputs rated 120V for Generator applications and Pump Sensing | 329360-001 |
| | Vacuum Sensor Module, Seven-Input Smart Sensor w/ Embedded Pressure Sensor Interface for Vac Sensor Monitoring & ISD (min. 1 req'd for Vac Sensor Monitoring) | 332250-001 | Used to Interface with vacuum sensors and Mag Sump Sensors | Four-Input Pump Sense Module (1 per 4 STPs req'd for Continuous STP Run Monitor feature with software V27 or higher) – Used with Continuous STP run Monitor and CSLD, 120V | 329999-001 |
| | Eight-Input Interstitial/Liquid Sensor Module for use with Series 7943 Liquid Sensors | 329358-001 | Series 7943 liquid sensors include: 794380-322/352, 794380-209/209/323/333, 794390-409/420/430/460, 794380-301/303/304, 794690-xxx | Pump Relay Monitor Module (1 per 4 STPs req'd for Continuous STP Run Monitor feature with software V27 or higher). Rated for 240V – Designed to detect faulty STP control relay | 847490-504 |
| | Five-Input Vapor Sensor Module for use with Series 7943 Vapor Sensors | 329357-001 | Series 7943 Vapor Sensors include 794390-700 | Dispenser Controller Module – 10 amp relay, 120V – controls dispenser power for shut down purposes | 331408-001 |
| | Five-Input Groundwater Sensor module for use with Series 7943 Groundwater Sensors | 329357-001 | Series 7943 Groundwater Sensors include 794380-621/622/624 | Three-Output Pressurized Line Leak Controller Module (Max 2/console for use w/ PLLD) – Provides dispenser handle inputs and high power output to STP control relays – 120V | 330374-001 |
| | Eight-Input Type A Sensor Module for use with Series 7943 Non-Discriminating Dispenser Pan & Containment Sump Sensors | 329357-001 | Series 7943 Non-Discriminating Dispenser Pan & Containment Sump Sensors include 794380-321/351, 794380-343/344/345 | | |
| | Six-Input Type B Sensor Module for use with Series 7943 Discriminating Dispenser Pan & Containment Sump Sensors | 329357-001 | Series 7943 Discriminating Dispenser Pan & Containment Sump Sensors include 794380-320/350 | | |
| TLS-350R Communications & Memory Expansion Modules | Communication Compartment Modules (limit 4 per console unless otherwise noted) | | | Memory Expansion Modules | |
| | Description | Part # | Description | Part # | |
| | RS-232 Interface Module with Auxiliary Port | 330148-001 | Memory Expansion Module for ECPU1 board, 1 MEG | 333760-102 | |
| RS-232 Interface Module (Max 3/console) | 329362-001 | Memory Expansion Module for ECPU2 board, 1 MEG (req'd for V27 or higher on > 8 tanks or BIR w/ manifold tanks) | 333760-201 | | |

| TLS-350R Communications & Memory Expansion Modules (Continued) | Communication Compartment Modules (limit 4 per console unless otherwise noted) | | Memory Expansion Modules | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Description | Part # | Description | Part # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RS-232 Satellite Module | 329362-003 | Memory Expansion Module for ECPU2 board, 2 MEG (req'd for ISD or Maintenance Tracker) | 333760-203 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RS-232 Serial Satellite Module | 329362-004 | System Compatibilities Guide | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RS-232 Single Port Module, DB25, w/ Maintenance Tracker ID Resistor | 329362-005 | <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 70%;">Feature/Console</th> <th style="width: 30%;">TLS-350R PC-350R TLS-350PLUS PC-350PLUS</th> </tr> </thead> <tbody> <tr> <td colspan="2">CONSOLE DESIGN</td> </tr> <tr> <td>Modular/Expandable Features</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Fixed Features</td> <td></td> </tr> <tr> <td>Integral Printer</td> <td style="text-align: center;">Optional</td> </tr> <tr> <td colspan="2">INVENTORY CONTROL</td> </tr> <tr> <td>Business Inventory Reconciliation</td> <td style="text-align: center;">•*</td> </tr> <tr> <td>Variance Analysis</td> <td style="text-align: center;">•*</td> </tr> <tr> <td>Fuel Manager</td> <td style="text-align: center;">Optional</td> </tr> <tr> <td>Complete Inventory Reports</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Programmable Auto Report Times</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Inventory Increase Report</td> <td style="text-align: center;">•</td> </tr> <tr> <td colspan="2">IN-TANK LEAK TEST</td> </tr> <tr> <td>0.1 GPH Tank Tightness Testing</td> <td style="text-align: center;">•</td> </tr> <tr> <td>0.2 GPH Tank Tightness Testing</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Continuous Statistical Leak Detection</td> <td style="text-align: center;">Optional</td> </tr> <tr> <td>Selectable Test Rates</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Programmable Automatic Test Schedules</td> <td style="text-align: center;">•</td> </tr> <tr> <td>PASS, FAIL, or INVALID Indicators</td> <td style="text-align: center;">•</td> </tr> <tr> <td colspan="2">LINE LEAK DETECTION</td> </tr> <tr> <td>Integral Line Leak Detector</td> <td style="text-align: center;">Optional</td> </tr> <tr> <td>Programmable Line Test Features</td> <td style="text-align: center;">Optional</td> </tr> <tr> <td colspan="2">INTERSTITIAL/SUMP LEAK SENSING</td> </tr> <tr> <td>Tank Annulus</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Sump</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Dispenser Pan</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Mag Sump</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Sensor Location Identifiers</td> <td style="text-align: center;">•</td> </tr> <tr> <td colspan="2">VAPOR WELL MONITORING</td> </tr> <tr> <td>Hydrocarbon Vapor Detection</td> <td style="text-align: center;">•</td> </tr> <tr> <td>High Water Level Alarm</td> <td style="text-align: center;">•</td> </tr> <tr> <td colspan="2">GROUNDWATER MONITORING</td> </tr> <tr> <td>Hydrocarbon Liquid Detection</td> <td style="text-align: center;">•</td> </tr> <tr> <td>Low Water Alarm</td> <td style="text-align: center;">•</td> </tr> <tr> <td colspan="2">SECONDARY CONTAINMENT VACUUM SENSING SYSTEM (SCVS)</td> </tr> <tr> <td>Vacuum Sensors</td> <td style="text-align: center;">•</td> </tr> <tr> <td colspan="2">AIR VAPOR MONITORING</td> </tr> <tr> <td>In-Station Diagnostics (ISD)</td> <td style="text-align: center;">Optional</td> </tr> <tr> <td>Carbon Canister Vapor Polisher</td> <td style="text-align: center;">Optional</td> </tr> <tr> <td>Vapor Pressure Sensor</td> <td style="text-align: center;">Optional</td> </tr> <tr> <td>Vapor Flowmeter</td> <td style="text-align: center;">Optional</td> </tr> </tbody> </table> | | Feature/Console | TLS-350R PC-350R TLS-350PLUS PC-350PLUS | CONSOLE DESIGN | | Modular/Expandable Features | • | Fixed Features | | Integral Printer | Optional | INVENTORY CONTROL | | Business Inventory Reconciliation | •* | Variance Analysis | •* | Fuel Manager | Optional | Complete Inventory Reports | • | Programmable Auto Report Times | • | Inventory Increase Report | • | IN-TANK LEAK TEST | | 0.1 GPH Tank Tightness Testing | • | 0.2 GPH Tank Tightness Testing | • | Continuous Statistical Leak Detection | Optional | Selectable Test Rates | • | Programmable Automatic Test Schedules | • | PASS, FAIL, or INVALID Indicators | • | LINE LEAK DETECTION | | Integral Line Leak Detector | Optional | Programmable Line Test Features | Optional | INTERSTITIAL/SUMP LEAK SENSING | | Tank Annulus | • | Sump | • | Dispenser Pan | • | Mag Sump | • | Sensor Location Identifiers | • | VAPOR WELL MONITORING | | Hydrocarbon Vapor Detection | • | High Water Level Alarm | • | GROUNDWATER MONITORING | | Hydrocarbon Liquid Detection | • | Low Water Alarm | • | SECONDARY CONTAINMENT VACUUM SENSING SYSTEM (SCVS) | | Vacuum Sensors | • | AIR VAPOR MONITORING | | In-Station Diagnostics (ISD) | Optional | Carbon Canister Vapor Polisher | Optional | Vapor Pressure Sensor | Optional | Vapor Flowmeter | Optional |
| | Feature/Console | TLS-350R PC-350R TLS-350PLUS PC-350PLUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONSOLE DESIGN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Modular/Expandable Features | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Fixed Features | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Integral Printer | Optional | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INVENTORY CONTROL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Business Inventory Reconciliation | •* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Variance Analysis | •* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fuel Manager | Optional | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete Inventory Reports | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Programmable Auto Report Times | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inventory Increase Report | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IN-TANK LEAK TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.1 GPH Tank Tightness Testing | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 GPH Tank Tightness Testing | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Continuous Statistical Leak Detection | Optional | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Selectable Test Rates | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Programmable Automatic Test Schedules | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PASS, FAIL, or INVALID Indicators | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINE LEAK DETECTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integral Line Leak Detector | Optional | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Programmable Line Test Features | Optional | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTERSTITIAL/SUMP LEAK SENSING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tank Annulus | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sump | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dispenser Pan | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mag Sump | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sensor Location Identifiers | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAPOR WELL MONITORING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocarbon Vapor Detection | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Water Level Alarm | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER MONITORING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocarbon Liquid Detection | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Water Alarm | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SECONDARY CONTAINMENT VACUUM SENSING SYSTEM (SCVS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuum Sensors | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AIR VAPOR MONITORING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| In-Station Diagnostics (ISD) | Optional | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Canister Vapor Polisher | Optional | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vapor Pressure Sensor | Optional | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vapor Flowmeter | Optional | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dual Port RS-232/RS-485 Interface Module (only used in Comm. Slots 3 & 4) | 330586-001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dual-Port Remote Display Module RS-232 | 330586-011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dual-Port Remote Display Module Satellite RS-485 (Amoco) | 330586-015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dual-Port RS-485 Module/Serial Satellite (Shell) | 330586-016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dual-Port RS-232/RS-485 Module DB9 with Maintenance Tracker ID resistor (only used in Comm. Slots 3 & 4) | 330586-017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SiteFax™ Module 300/1200/2400-Baud Fax/Modem Interface (Max 3/console, phone cable included) | 330149-002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet TCP/IP Communications Module | 330020-425 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Specifications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating Temperature | +32 to +118°F (0 to +45°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage Temperature | -40 to +162°F (-40 to +74°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Location | NEMA 4 or indoors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relative Humidity | 0-90% (non-condensing) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| External Dimensions | 19.75" x 11.25" x 7.1875" (50.165cm x 28.575cm x 18.26cm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction | 16GA (0.060 in/0.1524 cm) powder coated steel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Console Power Wiring Requirements | AC Power Wiring – Wires carrying 120 or 240 VAC from power panel to the console should be #14 AWG (or larger) wire for line, neutral & chassis ground (3); and 4 sq. mm, rated for at least 90C for barrier ground. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Probe & Sensor to Console Wiring Requirements | <ol style="list-style-type: none"> Wire Type – Shielded cable required regardless of conduit material or application. It must be rated less than 100 picofarad per ft manufactured with a suitable material such as Carol C2534 or Belden 88760, 8760, or 8770. Wire Length – Maximum 1,000ft (304.8m) to meet intrinsic safety requirements. Improper system operation could result for runs over 1,000ft (304.8m). Wire Gauges – Color coded – shielded cable used in all installations. Wires should be #14 - #18 AWG stranded copper wire and installed as Class 2 circuits. As an alternate method when approved by the local authority having jurisdiction, #22 AWG wire such as 88761 may be suitable with the following requirements: wire run is less than 750ft (228.6m); Capacitance does not exceed 100 pF/ft; Inductance does not exceed 0.2 uH/ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| System Power Requirements | Universal AC power supply: 100 to 249VAC, 50/60Hz, 2A max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display Specifications | 20 character liquid crystal display | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Custom User Access | Front Panel Display control through user specific log-in | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approvals | UL cUL, ATEX, IECEx | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Third Party Evaluations | http://www.nwglde.org/evals/veeder_root_zf.html | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product Installation Guide | https://www.veeder.com/us/technical-document-library | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Standard in TLS-350R, Upgradeable in TLS-350PLUS

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Example Illustrations

Illustrations used in this guide for example sensor installations may contain components that are customer supplied and not included with the sensor. Please check with your Veeder-Root Distributor for recommended installation accessories.

Third Party Evaluations

Third party evaluations of the Veeder-Root sensors contained in this application guide can be found under the Veeder-Root vendor name on the National Work Group on Leak Detection Evaluations (NWGLDE) website:

<http://www.nwglde.org>