


Console Description	<p>The TLS-300C Automatic Tank Gauge offers flexibility in one to two tank inventory control and in-tank leak detection systems for underground storage tanks. It is intended for smaller tank retailers and commercial operators.</p>							
TLS-300C Consoles, Standard Hardware & Software	<table border="1"> <thead> <tr> <th data-bbox="396 478 967 520">Part # & Description</th> <th data-bbox="967 478 1526 520">Standard Hardware</th> </tr> </thead> <tbody> <tr> <td data-bbox="396 520 967 569">1. 848590-521 TLS-300C Two-Tank Configurable Console with Integral Printer - 120V UL/cUL</td> <td data-bbox="967 520 1526 569" rowspan="2">Two input dry contact relays, two output (Form C) 120V 2 amp or 24DC 2 amp contact relays, built-in RS-323 Port, and 8 liquid /interstitial sensor capacity</td> </tr> <tr> <td data-bbox="396 569 967 636">2. 848590-511 TLS-300C Two-Tank Configurable Console less Integral Printer - 120V UL/cUL</td> </tr> </tbody> </table>	Part # & Description	Standard Hardware	1. 848590-521 TLS-300C Two-Tank Configurable Console with Integral Printer - 120V UL/cUL	Two input dry contact relays, two output (Form C) 120V 2 amp or 24DC 2 amp contact relays, built-in RS-323 Port, and 8 liquid /interstitial sensor capacity	2. 848590-511 TLS-300C Two-Tank Configurable Console less Integral Printer - 120V UL/cUL		
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Specifications								
Operating Temperature	+32 to +104°F (0 to +40°C)							
Storage Temperature	-40 to +162°F (-40 to +74°C)							
Installation Location	Indoors, climate-controlled space							
Relative Humidity	0-90% (non-condensing)							
External Dimensions	13" x 8" x 3.5" (33.02cm x 20.32cm x 8.89cm)							
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 249 VAC, 50/60Hz, 2A max.							
Display Specifications	2-line, 24 character liquid crystal display with a 24-key front panel keypad with control and alphanumeric capability for programming, operating, and reporting functions.							
Custom User Access	Front Panel Display control through user specific log-in; User defined roles to restrict access / functionality. Screen permissions can be limited to view, edit, perform.							
Approvals	UL, cUL, ATEX, ANSI, API, ASTM, EPA, NBS, NEC, NFPA, FCC, BASEEFA, and FM							
Third Party Evaluations	http://www.nwglde.org/evals/veeder_root_zf.html							
Product Installation Guide	https://www.veeder.com/us/technical-document-library							

System Compatibilities Guide

Feature/Console	TLS-300C 2-Tank Configurable
CONSOLE DESIGN	
Modular/Expandable Features	
Fixed Features	•
Integral Printer	Optional
INVENTORY CONTROL	
Business Inventory Reconciliation	
Variance Analysis	
Fuel Manager	
Complete Inventory Reports	•
Programmable Auto Report Times	•
Inventory Increase Report	•
IN-TANK LEAK TEST	
0.1 GPH Tank Tightness Testing	Optional
0.2 GPH Tank Tightness Testing	Optional
Continuous Statistical Leak Detection	Optional
Selectable Test Rates	Optional
Programmable Automatic Test Schedules	Optional
PASS, FAIL, or INVALID Indicators	Optional
LINE LEAK DETECTION	
Integral Line Leak Detector	
Programmable Line Test Features	
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)	
Carbon Canister Vapor Polisher	
Vapor Pressure Sensor	
Vapor Flowmeter	

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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>