

Console Description	The TLS4B Automatic Tank Gauge is a non- expandable console ideally suited for customers seeking to streamline their inventory management using an affordable, web-enabled technology to eliminate manual dipping procedures. The TLS4B has 6 universal sensor or probe inputs (when using only two-wire devices).		
	Console Part # & Description	Standard Hardware & Application Software	
TLS4B Consoles, Standard Hardware & Software	 0860196-020 TLS4B Console, Color Touch Screen Display, EDIM, UL 0860196-010 TLS4B Console, No Display, EDIM, UL 0860166-x20 TLS4B Console, Color Touch Screen Display, EDIM or IFSF, ATEX 0860166-x10 TLS4B Console, No Display, EDIM or IFSF, ATEX 	Software – 0333435-001 Application Software (must be ordered with Console) includes Web-enabled, Custom Alarm, On-Console Help, Extended Storage Hardware – Included with Console: Two Configurable RS-232/485 Serial Ports (Isolated), One Ethernet Port, Two External USB 2.0 Ports, Two Relay Outputs (120/240VAC 5A; 30VDC 5A; Fuse Ratings 5A, 250VAC Type T (Slo-Blo)), One Low Voltage Input (max. contact closure ratings 12VDC 0.015A Class I wiring is required for 12 volt closure circuits)	
	Part # & Description		
	Static In-Tank Leak Detection (SLD), for USTs only	0333410-015	
TLS4B Optional Software	Business Inventory Reconciliation (BIR)/Hourly Reconciliation Mode (HRM)/Accuchart	0333410-012	
	Timed Sudden Loss Detection	0333410-018	
	Vapor Collection Monitor	0333410-021	
	Note: If software features are added to an existing console, the Feature Enhancement will be shipped with a kit that includes a wrist strap, manual, iButton holder and programmed iButton – 0333530-002.		
Optional Printer for TLS4 Series Consoles	Part # & Description		
	External Printer for TLS4 Series Consoles (Epson Model: TM-T88V)	0330020-832	
	Wall Mounting Bracket for External Printer for TLS4 Series Consoles	0330020-839	
Specifications			
Operating Temperature	+32 to +1	22°F (0 to +50°C)	
Storage Temperature	-40 to +158°F (-40 to +70°C)		
Installation Location	NEMA 4 or indoors; must maintain Operating Temperature requirement stated above.		
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"/0.1524cm) powder coated steel		
Console Power Wiring Requirements	AC Power Wiring – Wires carrying 120 or 240VAC 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	 Wire Type – Shielded cable required regardless of conduit materiel or application. Shielded cable must be rated less than 100 picofarad per ft manufactured with a suitable material such as Carol C2534 or Belden 88760, 8760, or 8770. Cable must be oil and gas resistant. 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/foot, Inductance does not exceed 0.2 uH/ft. 		



Specifications (continued)		System Compatibilities Guide	
	Either AC input or DC input, but not both. 1. Universal AC power supply: 100 to 249VAC, 50/60Hz, 2A max. 2. DC power supply: +24VDC, 2A max. and +5VDC, 4A max. Um <= 250Vrms or 250VDC.	Feature/Console	TLS4B
		CONSOLE DESIGN	
System Power		Modular/Expandable Features	N/A
Requirements		LCD with Touch Screen	7" WVGA Color
		Integral Roll Printer	N/A
		Universal Power Supply	•
		INVENTORY CONTROL	
		Graphical Inventory Status	•
Display Specifications	7" (17.78cm) Color WVGA LCD touch screen display	Complete Inventory Reports	•
Data Staraga Fasturas	SD cord	Programmable Auto Report Times	•
Data Storage Features		Inventory Increase Report	•
	Centralized Device Management provides support for network-wide upgrades and backups.	Timed Sudden Loss Detection	Optional
Software Security Features		CENTRALIZED DEVICE MANAGEMENT (CD	M)
		CDM Software	Optional
		CDM Backup Feature	Optional
		CDM Change Management	Optional
	Front Panel Display control through user specific log-in:	BUSINESS INVENTORY RECONCILIATION (BIR)	
Custom User Access	User defined roles to restrict access/functionality. Screen permissions can be limited to view, edit, perform.	Shift-Based Reconciliation	Optional
		Reconciliation by Tank	Optional
		TANK CALIBRATION	
		AccuChart™	Optional
	 Port availability control: SSH Port (22), HTTPS Port (443), Serial Command Port (10001) Reassign Port Numbers (i.e., HTTPS on 50443) System Integrator CVE Scans & Fixes Periodic System Updates to protect against persistent threats 	Multi-Pass Tank Calibration	Optional
		Single-Pass / Metered Drop	Optional
		Limited Range Calibration	Optional
System Security		Supports Multiple Tank Charts per Tank	Optional
		Supports Multiple Line Manifold Tanks	N/A
System Security		Graphical / Text Calibration Diagnostics	Optional
		Automatic and Manual Meter Mapping	Optional
		IN-TANK LEAK TEST	
		0.1 GPH Tank Tightness Testing	Optional
		0.2 GPH Tank Tightness Testing	Optional
Customized Alarm Features	Customizable for all alarms	Continuous Statistical Leak Detection	N/A
A		Selectable Test Rates	Optional
Approvais	UL CUL, ATEX, IECEX, NEPSI, FCC, FMC, PESU	Programmable Automatic Test Schedules	Optional
Third Party Evaluations	Veeder-Root 8601 (nwglde.org)	PASS, FAIL, or INVALID Indicators	Optional
,		LINE LEAK DETECTION	
Product Installation Guide	https://www.veeder.com/us/technical-document-library	Integral Line Leak Detector	N/A
		Programmable Line Test Features	N/A
		INTERSTITIAL/SUMP LEAK SENSING	
		Tank Annulus	•
		Sump	•

Dispenser Pan

Low Water Alarm

ALARMS Leak

Overfill

High Level

Sudden Loss High Water

Low Inventory

Sensor Location Identifiers

VAPOR WELL MONITORING

Hydrocarbon Vapor Detection High Water Level Alarm

GROUNDWATER MONITORING Hydrocarbon Liquid Detection

AIR VAPOR MONITORING Vapor Collection Monitor

Programmable Alarm Limits

Mag Sump

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Optional

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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