TLS-450 *PLUS*

TLS4i   TLS4c

Veeder-Root Specification Sheet
8600 & 8601 Series Consoles

VEEDER-ROOT

Standard Features	TLS-450 *PLUS*	TLS4i	TLS4c
WVGA LCD color touch screen with user-friendly graphic display	✔	✔	✔
Universal AC power supply, 100-249 VAC, 50/60Hz	✔	✔	✔
Rechargable backup battery	✔	✔	✔
Internal 5 amp relays, 120/240 VAC or 30 Vdc	1	2	2
One internal universal low voltage input, 12Vdc (contact closure sense)		✔	✔
Maximum number of universal probe and/or sensor inputs	256[1]	12	6
Maximum number of probes	32	4	2
Maximum number of any one type of sensor	99[2]	12	6
Optional inputs and outputs	✔ [3,4]		
Web-enabled: view and control from web or smart phone browsers	✔	✔	✔

[1]=with TLS-XB   [2]=Available on version 6A or higher   [3]=20 High Output, 20 High Inputs, 16 Low Voltage Inputs   [4]=80 High Output, 80 High Inputs, 64 Low Voltage Inputs with TLS-XB

Communications	TLS-450 *PLUS*	TLS4i	TLS4c
Configurable optically isolated RS-232/RS-485 serial ports (provides electrical isolation)		2	2
Configurable RS-232/RS-485 serial ports	5[1]	2	2
Ethernet port(s)	3	1	1
Ethernet network(s)	2	1	1
USB ports (external/internal)	2/2	2/0	2/0
External GSM/GPRS modem via Ethernet port	✔	✔	✔

[1]=Up to

System Specifications	TLS-450 *PLUS*	TLS4i	TLS4c
Multipoint tank chart, supports up to 5,000 unique points	✔	✔	✔
Network printer support via Ethernet	✔	✔	✔
Operating temperature: 0°C to 40°C (32°F to 109°F)	✔	✔	✔
Storage temperature: -40°C to 70°C (-40°F to 158°F)	✔	✔	✔
Relative humidity 0-90% (non-condensing)	✔	✔	✔
Approximate external dimensions (inches)	18.4 x 11 x 8.8	13 x 8 x 3.5	13 x 8 x 3.5
Construction 16GA (.060 inch) powder coated steel	✔	✔	✔

Safety Approval Groups	TLS-450 PLUS	TLS4i	TLS4c
UL/cUL listed	✔	✔	✔
ATEX	✔		
IECEx	✔		
NEPSI	✔		
FCC	✔	✔	✔
EMC	✔	✔	✔
PESO	✔		

Operational Features	TLS-450 PLUS	TLS4i	TLS4c
Multi-language GUI capability[1]	✔	✔	✔
Units of measure: metric, imperial, USA	✔	✔	✔
Customizable user login with role-based access levels	✔	✔	✔
Custom alarms for unique labeling or on-site instruction	✔	✔	✔
Customizable automatic events for email, print reports, relay and pump control	✔	✔	✔
Workflow wizard for streamlined setup	✔	✔	✔
Context sensitive help	✔	✔	✔
Comprehensive reports	✔	✔	✔
Up to three years of history available	✔	✔	✔
Inventory and delivery monitoring	✔	✔	✔
Power outage	✔	✔	✔
Alarm history	✔	✔	✔
Storage capability – setup, configuration and data history	✔	✔	✔
Additional feature enhancement software upgrade capability (through USB)	✔	✔	✔
Prominent visual status indicators including power, warning and alarm	✔	✔	✔
Software upgrade through USB	✔	✔	✔
Remote software download capability via Ethernet[2]	✔	✔	✔

[1]=Arabic, Brazil Portuguese, Chinese, Simplified Chinese, English, Finnish, French, German, Hebrew, Hindi, Italian, Korean, Polish, Portuguese, Russian, Spanish   [2]=available on version 5B or higher

Additional Functionality When Combined with Appropriate Equipment and/or Software	TLS-450 PLUS	TLS4i	TLS4c
AccuChart tank calibration including selectable calibration range and data sufficiency tracking	Optional		
Business Inventory Reconciliation (BIR)	Optional		
Hourly Reconciliation Monitoring (HRM)	Optional		
Timed Sudden Loss[1]	Optional	Optional	Optional
10-amp controller module	Optional		
Digital Pressurized Line Leak Detection (DPLLD) – 0.1 GPH annual, 0.2 GPH monthly & 3 GPH hourly testing	Optional		
In-Tank Static Leak Detection (SLD) – 0.1 GPH annual testing and 0.2 GPH monthly testing	✔	Optional	Optional
Continuous Statistical Leak Detection (CSLD) – 0.2 GPH for single and manifolded tanks	Optional	Optional	Optional
Phase separation detection up to E15 (4" float kit)	✔	✔	✔
Mag-FLEX tall tank AST monitoring	✔	✔	✔
Fuel density monitoring	✔	✔	✔
Range: 43 - 50 pounds/ft³ (petroleum)	✔	✔	✔
Range: 50 - 56 pound/ft³ (diesel)	✔	✔	✔

[1]=available on version 6B or higher