

TLS-450 PLUS



TLS4 TLS4B

Veeder-Root Specification Sheet 8600 & 8601 Series Consoles



Standard Features	TLS-450 PLUS	TLS4	TLS4B
WVGA LCD color touch screen with user-friendly graphic display	✓	✓	✓
Universal AC power supply, 100-249 VAC, 50/60HZ	✓	✓	✓
Optional DC power input, +24Vdc, +5Vdc		✓	✓
Rechargeable backup battery	✓	✓	✓
Internal 5 amp relays, 120/240 VAC or 30 Vdc	1	2	2
One internal universal low voltage input, 12 Vdc (contact closure sense)		✓	✓
Maximum number of universal probe and/or sensor inputs	256 ¹	12	6
Maximum number of probes	32	12	6
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 Outputs, 20 High Inputs, 16 Low Voltage Inputs ⁴=80 High Outputs, 80 High Inputs, 64 Low Voltage Inputs with TLS-XB

Communications	TLS-450 PLUS	TLS4	TLS4B
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	3	1
Ethernet network(s)	2	2	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	TLS4	TLS4B
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 104°F)	✓	✓	✓
Storage temperature: -40°C to 70°C (-40°F to 158°F)	✓	✓	✓
Relative humidity 0-90% (non-condensing)	✓	✓	✓
Approximate external dimensions (centimeters)	46 x 28 x 22	33 x 20 x 9	33 x 20 x 9
Construction 16GA (0.060 inch/0.1524 centimeter) powder coated steel	✓	✓	✓

Safety Approval Groups	TLS-450 PLUS	TLS4	TLS4B
UL/cUL listed	✓	✓	✓
ATEX	✓	✓	✓
IECEX	✓	✓	✓
NEPSI	✓	✓	✓
FCC	✓	✓	✓
EMC	✓	✓	✓
PESO	✓	✓	✓

Operational Features	TLS-450 PLUS	TLS4	TLS4B
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	TLS4	TLS4B
AccuChart tank calibration including selectable calibration range and data sufficiency tracking	Optional	Optional	
Business Inventory Reconciliation (BIR)	Optional	Optional	
Hourly Reconciliation Monitoring (HRM)	Optional	Optional	
Timed Sudden Loss ¹	Optional	Optional	Optional
10-amp controller module	Optional		
Digital Pressurized Line Leak Detection (DPLLD) – 0.38 LPH annual, 0.76 LPH monthly & 11.35 LPH hourly testing	Optional		
In-Tank Static Leak Detection (SLD) – 0.38 LPH annual and 0.76 LPH monthly testing	✓	✓	Optional
Continuous Statistical Leak Detection (CSLD) – 0.76 LPH for single and manifolded tanks	Optional	Optional	
Phase separation detection up to E15 (4-inch/10.16-centimeter float kit)	✓	✓	✓
Mag-FLEX tall tank AST monitoring	✓	✓	✓
Fuel density monitoring	✓	✓	✓
Range: 700-800 kg/m ³ (petroleum)	✓	✓	✓
Range: 800-900 kg/m ³ (diesel)	✓	✓	✓

¹= Expected availability May 2015