VEEDER-ROOT

TLS-450PLUS, TLS4 & TLS4B Automatic Tank Gauges

Specification Sheet

Standard Features	TLS-450PLUS	TLS4	TLS4B
WVGA LCD color touch screen with user-friendly graphic display	✓	✓	✓
Universal AC power supply, 100-249VAC, 50/60HZ	✓	✓	✓
Optional DC power input, +24VDC, +5VDC	N/A	✓	✓
Rechargeable backup battery	✓	✓	✓
Internal 5AMP relays, 120/240VAC or 30VDC	1	2	2
One internal universal low voltage input, 12VDC (contact closure sense)	N/A	✓	✓
Maximum number of universal probe and/or sensor inputs	64/128/192/256 [1]	12/76 [1]	6
Maximum number of probes	32	12/32 [1]	6
Maximum number of any one type of sensor	99 [2]	12/76 [1]	6
Optional inputs and outputs	✓ [3]	✓ [4]	N/A
Web-enabled (view and control from web or smartphone browsers)	✓	✓	✓

[1] = TLS-450PLUS can have up to three TLS-XB; TLS4 can have one TLS-XB
[2] = Available on version 6.A or higher
[3] = 32 High Voltage Outputs, 32 High Voltage Inputs, 16 Low Voltage Inputs
[4] = 20 High Voltage Outputs, 20 High Voltage Inputs, 16 Low Voltage Inputs

Communications	TLS-450PLUS	TLS4	TLS4B
Configurable optically isolated RS-232/RS-485 serial ports (provides electrical isolation)	N/A	2	2
Configurable RS-232/RS-485 serial ports	Up to 5	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	✓	✓	✓

System Specifications	TLS-450PLUS	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	18.11" x 11.02" x 8.66" 46cm x 28cm x 22cm	12.99" x 7.87" x 3.54" 33cm x 20cm x 9cm	12.99" x 7.87" x 3.54" 33cm x 20cm x 9cm
Construction 16GA (0.060"/0.1524cm) powder-coated steel	✓	✓	✓

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

Operational Features	TLS-450PLUS	TLS4	TLS4B
Multi-language GUI capability [1]	✓	✓	✓
Units of measure: Metric, US/Imperial	✓	✓	✓
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, including inventory history up to 720 records	✓	✓	✓
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 via USB	✓	✓	✓
Remote software download capability via CDM [2]	✓	✓	✓

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

Additional Functionality (When combined with appropriate equipment and/or software)	TLS-450PLUS	TLS4	TLS4B
AccuChart™ In-Tank Calibration (including selectable calibration range and data sufficiency tracking)	Optional	Optional	Optional
Business Inventory Reconciliation (BIR)	Optional	Optional	Optional
Hourly Reconciliation Monitoring (HRM)	Optional	Optional	Optional
Timed Sudden Loss [1]	Optional	Optional	Optional
10AMP controller module	Optional	Optional	N/A
Digital Pressurized Line Leak Detection (DPLLD)	Optional	N/A	N/A
In-Tank Static Leak Detection (SLD) – 0.38 LPH annual and 0.76 LPH monthly testing	Standard	Standard	Optional
Continuous Statistical Leak Detection (CSLD) – 0.76 LPH for single and manifolded tanks	Optional	Optional	N/A
Phase separation detection up to E15 (4"/10.16cm float kit)	✓	✓	✓
Mag-FLEX tall tank AST monitoring, up to 264,172,000 gal/999,999,999 liter tank capacity	✓	✓	✓
Fuel density monitoring	✓	✓	✓
Range: 700-800kg/m³ (petroleum)	✓	✓	✓
Range: 800-900kg/m³ (diesel)	✓	✓	✓

[1] = Available on version 6.B or higher

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