TLS-450PLUS, TLS4, & TLS4B Automatic Tank Gauges

Specification Sheet

Standard Features	TLS-450PLUS	TLS4	TLS4B
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 2-Amp relays, 120/240VAC or 30VDC	1	2	2
One internal universal low voltage input, 12VDC – senses contact closure	N/A	✓	✓
Maximum number of universal probe and/or sensor inputs	64/128/192/256 [1]	12/76 [1]	6
Maximum number of in-tank probes	64 [1]	12/32 [1]	6
Maximum number of any one type of sensor	99 [1]	12/76 [1]	6
Optional inputs and outputs	✓ [2]	✓ [3]	N/A
Web-enabled – monitor and manage via a web browser on a computer or mobile device	✓	✓	✓

[1] = TLS-450PLUS can have up to three TLS-XB Expansion Boxes; TLS4 can have one TLS-XB
[2] = 32 High Voltage Outputs, 32 High Voltage Inputs, 16 Low Voltage Inputs
[3] = 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	32°F to 104°F (0°C to 40°C)	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)
Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
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]	✓ [1]	✓ [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 Centralized Device Management (CDM)	Optional	Optional	Optional

[1] = Arabic, Brazil Portuguese, Chinese, Simplified Chinese, English, Finnish, French, German, Hebrew, Hindi, Italian, Korean, Polish, Portuguese, Russian, Spanish

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 Detection	Optional	Optional	Optional
10-Amp Controller Module	Optional	Optional	N/A
Digital Pressurized Line Leak Detection (DPLLD)	Optional	N/A	N/A
In-Tank Static Leak Detection (SLD) – 0.1 Gallons Per Hour (GPH)/0.38 Liters Per Hour (LPH) annual and 0.2 GPH/0.76 LPH monthly testing	✓	✓	Optional
Continuous Statistical Leak Detection (CSLD) – 0.76 LPH for single and manifolded tanks	Optional	Optional	N/A
Phase Separation Detection Up to E20 – 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)	✓	✓	✓
THE PLUS VIEW App (iOS, Android) for Remote Access on Smart Phones and Tablets	✓	✓	✓
HydrX™ Fuel Conditioning System	✓	✓ [1]	N/A
In-Station Diagnostics (ISD)	✓ [2]	N/A	N/A

[1] = One TLS-XB Expansion Box is required
[2] = California Air Resources Board (CARB) certified

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