

# TLS-450 PLUS

## TLS4i TLS4c

### Veeder-Root Specification Sheet 8600 & 8601 Series Consoles



| 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                            | ✓                | ✓     | ✓     |
| Optional DC power input, +24Vdc, +5Vdc                                     | —                | ✓     | ✓     |
| Rechargeable backup battery stores time and critical data at least 14 days | ✓                | ✓     | ✓     |
| 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 sensors Input                     | 256 <sup>1</sup> | 12    | 6     |
| Maximum number of probes   | 32               | 4     | 2     |
| Maximum number of any one type of sensor                                   | 64               | 12    | 6     |
| Optional inputs and outputs  | ✓ <sup>2,3</sup> | X     | X     |
| Web-enabled: view and control from web or smart phone browsers             | ✓                | ✓     | ✓     |

<sup>1</sup>=with TLS-XB    <sup>2</sup>=20 High Output, 20 High Inputs, 16 Low Voltage Inputs    <sup>3</sup>=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            | 2     | 2     |
| Ethernet port  | 3            | 1     | 1     |
| Ethernet networks  | 2            | 1     | 1     |
| USB ports (external / internal)  | 2/2          | 2/0   | 2/0   |
| External GSM/GPRS modem via ethernet port  | ✓            | ✓     | ✓     |

| 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)                  | ✓                   | ✓               | ✓               |
| Dimensions  | 18.35" x 11" x 8.8" | 13" x 8" X 3.5" | 13" x 8" X 3.5" |
| Construction 16GA (.060 inch) powder coated steel         | ✓                   | ✓               | ✓               |

| <b>Safety Approval: Group.</b> | <b>TLS-450<sup>PLUS</sup></b> | <b>TLS4i</b> | <b>TLS4c</b> |
|--------------------------------|-------------------------------|--------------|--------------|
| UL/cUL listed                  | ✓                             | ✓            | ✓            |
| ATEX                           | ✓                             | ✓            | ✓            |
| IECEX                          | ✓                             | ✓            | ✓            |
| NEPSI                          | ✓                             | ✓            | ✓            |
| FCC                            | ✓                             | ✓            | ✓            |
| EMC                            | ✓                             | ✓            | ✓            |

| <b>Operational Features:</b>  | <b>TLS-450<sup>PLUS</sup></b> | <b>TLS4i</b> | <b>TLS4c</b> |
|---|-------------------------------|--------------|--------------|
| Languages: Arabic, Brazil Portuguese, Chinese, Simplified Chinese, English, Finnish, French, German, Hebrew, Hindi, Italian, Korean, Polish, Portuguese, Russian, Spanish | ✓                             | ✓            | ✓            |
| Units of measure: metric, imperial, USA   | ✓                             | ✓            | ✓            |
| Customizable user login   | ✓                             | ✓            | ✓            |
| Custom alarms   | ✓                             | ✓            | ✓            |
| Comprehensive reports   | ✓                             | ✓            | ✓            |
| Select data up to three years of history  | ✓                             | ✓            | ✓            |
| Inventory and delivery monitoring reporting   | ✓                             | ✓            | ✓            |
| Power outage delivery reports   | ✓                             | ✓            | ✓            |
| Alarm history   | ✓                             | ✓            | ✓            |
| Storage capability – setup, programming and data history  | ✓                             | ✓            | ✓            |
| Additional feature upgrade capability (through USB)   | ✓                             | ✓            | ✓            |
| Three visual status indicators (power, warning, alarm)  | ✓                             | ✓            | ✓            |
| Remote Software Download capability*  | ✓                             | ✓            | ✓            |

\*=available on version 5A

| <b>Optional Features:</b>   | <b>TLS-450<sup>PLUS</sup></b> | <b>TLS4i</b> | <b>TLS4c</b> |
|---|-------------------------------|--------------|--------------|
| AccuChart tank calibration including selectable calibration range and data sufficiency tracking | Optional                      | X            | X            |
| Business Inventory Reconciliation (BIR)   | Optional                      | X            | X            |
| Hourly Reconciliation Monitoring (HRM)  | Optional                      | X            | X            |
| Digital Pressurized Line Leak Detection (DPLLD)   | Optional                      | X            | X            |
| 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)   | ✓                             | ✓            | ✓            |
| Fuel density monitoring<br>Range: 43 - 50 pound / ft3 (petroleum), 50 - 56 pound / ft3 (diesel) | ✓                             | ✓            | ✓            |

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