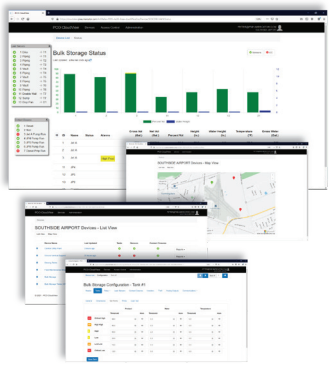
Modular, Multi-Tank Gauging System w/ EPA-Compliant In-Tank and Secondary Containment Leak Detection, Internet-Ready via Ethernet or Cellular to PCO Cloudview



Product Description

The TMS3000E Tank Management System is the enhanced version of the industry-proven TMS3000 series, with an extensive list of new features, including 6 programmable Product, Water and Temperature setpoints, Simulate mode, Ethernet TCP/IP (e-mail alerts included), USB host and client, RS232 (2 standard, expandable to 6) and RS485. Optional single, dual or quad ModBus, 4-20ma and other industrial protocols are supported. Web-ready for PCO CloudView access via Ethernet or optional internal cellular modem. Hardcopy reports are provided via optional internal thermal or impact printer in portrait and 116-character landscape modes, Ethernet-connected printer, or PDF to flash drive via front-panel weatherproof USB port. Universal, auto-switching AC power supply standard, DC input power options available.

Console

- Dimensions (W x H x D): 11.8” x 11.5” x 7.7” (300 mm x 292 mm x 178 mm)
- Weight: 19 lb (8.6 kg) (4-Tank w/ Printer), 21.5 lb (9.8 kg) (12-Tank w/ Printer)
- Operating Temperature: -40 ºF to 160 ºF (-40 ºC to 70 ºC) w/o Printer
  -5 ºF to 140 ºF (-20 ºC to 60 ºC) w/ Printer
- Humidity: 95% Non-condensing
- Enclosure Rating: Locking NEMA 12 (IP52), NEMA 4 (IP56) or NEMA 4X (IP66) (304 SS)
- Enclosure Mount Options: Wall-Mount (Standard) or Panel-Mount (Optional)
- Power Requirements: 95-250VAC Autoswitching, 50-60 Hz, 30 W Max.
  10-50 VDC Optional
- Memory: Configuration/Setup Data – SD Card, 50-year data retention, no batteries
  Log Reports – Removable SD Card, 50-year data retention, no batteries
  Real-Time Clock – Ultra Cap-Backed, no battery required
- Audible Alarm: 85 db
- Display: 9-Character, Super-Bright Sunlight-Readable LED Data Display, Readable from 25’ (7.6 m)
  Ultra-High Intensity Alarm LEDS, Visible from 75’ (22.9 m)
  6 Product, Water and Temperature Setpoint LEDs
- Communications: Two (2) RS-232 Included Standard, RJ-13 Jack, Optional Expansion to six(6), four of which are field-selectable for RS232 or RS485
  Single RS485 Included Standard, RJ-13 Jack (For Pneumercator Peripherals)
  Ethernet TCP/IP Port Included Standard
  USB Host and Client Included Standard
  Internal, Secured Cellular or Landline Modem, Single/Dual/Quad-Channel ModBus Optional
- Probe/Sensor Capacities: Probe/Sensor Card Options (3 slots available) All Sensor Inputs Supervised-Wiring-Ready
  4 Probe/8 Sensor and 16 Sensor (Max 12 Tanks)
- I/O, Non-Haz.: Expansion Options (2 slots available):
  4 Relays, 1 Form C, Rated 10 A@120 VAC, 6 A@240 VAC, w/ 4 Opto-Isolated Inputs
  8 Relays, 1 Form A, Rated 5 A@120 VAC, 5 A@240 VAC, w/ 8 Opto-Isolated Inputs
  16 Relays, 1 Form A, Rated 5 A@120 VAC, 5 A@240 VAC
  32 Relays, 1 Form A, Rated 1 A@24 VDC
  6 or 12-Ch. Programmable Analog Outputs: 0-1 mA, 0-20 mA, 0-24 mA, 4-20 mA, 0-5 VDC, 1-5 VDC

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Probes

- Technology: Magnetostrictive, Dual Float, w/ reflection resolution doubling
- Accuracy (Minimum):

MP45xS:		MP46x:	
Product Level:	0.0005” (0.013 mm)	Product Level:	0.01” (0.25 mm)
Water Level:	0.001” (0.025 mm)	Water Level:	0.01” (0.25 mm)
Temperature:	0.001 ºF (0.0006 ºC)	Temperature:	0.001 ºF (0.0006 ºC)

- Materials: Shaft: 316 SS or PVDF
  Floats: 316 SS, Buna-N, Urethane, or PVDF
- Mounting: In-Tank Leak Testing: 4” (102mm) diameter riser
  Inventory Only: 2” (51 mm) minimum riser or direct bushing / flange mount
- Temperature Sensing: 5 Thermistors in shaft, 1 in probe head
- Location Approval: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB
- Operating Temperature: -40 ºF to 175 ºF (-40 ºC to 80 ºC)
- Operating Pressure: 150 PSIG (1034 kPa) 316SS, 50 PSIG (345 kPa) PVDF
- Field Wiring: 22AWG, 2-Conductor twisted pair w/ shield
  Belden 8441, 8761, Alpha 1736C or equiv., max. length 3000’ to 4600’ (914 m to 1402 m)
- Models: MP45xS Series rigid SS max. length 24’ (7.3 m)
  MP46xS Series flex. PVDF max. length 70’ (21.3 m)

Sensors

- ES825-200F — Electronic, Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular, Includes Fault Detection Feature as Standard
- ES825-100F — Electronic, Non-Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular, Includes Fault Detection Feature as Standard
- LLP203 — 3GPH Catastrophic Line Leak Detector
- LS600LD — Float, Containment, Manway and Piping Sumps, Dispenser Pan
- LS600xx — Multi-Float, High / Low Level and Pump Control
- RSU800 — Float, Wet Annular / Reservoir
- LS610 — Float, Dry Annular
- HS100D2 — Polymer / Float – Wet Well, up to 45’ (13.7 m) depth
- HS100ND — Polymer – Dry Containment, 1’ to 45’ (0.3 m to 13.7 m) length

Most sensors are available with Fault-Detect Supervised sensor and wiring option. Add “F” Suffix to Model Number

Remote Displays

- ETD1000T — Addressable (up to 16), Multi-Drop, Touchscreen-Based, Remote Electronic Tank Display Panel
- ETD1000 — Addressable (up to 16), Multi-Drop, Remote Electronic Tank Display Panel
- RA400 — Addressable (up to 16), Multi-Drop, Programmable Remote Audible/Visual Alarm Panel
- ETD1000W — Wireless Remote Electronic Tank Display Panel*
- RA400W — Wireless Programmable Remote Audible/Visual Alarm Panel*

*Note: MPX200 Master Peripheral Expansion Module required.

Certifications / Approvals

- UL/cUL Approved, File #E139464
- Third-party approved, NWGLDE-listed

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Note: Specifications subject to change without notice.

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