

Multi-Tank Gauging System w/Color Touch Screen Suitable for Indoor and Outdoor Applications, EPA-Compliant In-Tank and Secondary Containment Leak Detection



Product Description

The TMS4000M Tank Management System is the latest generation of the TMS family, and the first touchscreen-based system in the industry available for both indoor and outdoor use without requiring a secondary enclosure, supplemental heating or cooling. The 7” color, SVGA display provides an extremely easy-to-use graphical interface with real-time tank measurement data presented in three distinct formats; easy-to-read meters, detailed spreadsheet and quick-view bar graphs. Each format is user-configurable, and the spreadsheet display prioritizes active or alarming tanks to the top of the window. Standard communications interfaces include Ethernet TCP/IP (e-mail/SMS alerts included), USB host and client, RS232(2) and RS485. Cellular communications, single or dual ModBus, 4-20ma and other industrial protocols are supported. Web-ready for PCO Cloudview access via Ethernet or internal cellular modem. Hardcopy reports are provided via Ethernet-connected printer, or PDF to flash drive via internal or front-panel weatherproof USB port. Extensive system security settings allow the administrator to assign users with widely varying degrees of accessibility. Localization features include operation in English, Spanish or French, with Metric (LT/mm) or English (Gal/in) units of measure, and an auto-switching universal power supply that will operate with any line voltage between 95-250VAC, 50/60Hz.

Console

- Dimensions (W x H x D): 10.9” x 9.1” x 4.7” (277 mm x 230 mm x 118 mm), depth increases by 1” (25mm) with external USB
- Weight: 12 lb (5.5 kg)
- Operating Temperature: -22 °F to 160 °F (-30 °C to 70 °C) (Consult factory for applications below -22 °F)
- Humidity: 95% Non-condensing
- Enclosure Rating: Locking NEMA 12 (IP52) or NEMA 4X (IP56) (304 SS)
- Power Requirements: 115/230 VAC ±15% Autoswitching, 50-60 Hz, 30 W Max.
10-60 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 – Lithium Battery-Backed
- Audible Alarm: 85 db
- Display: 7” (178 mm) Diagonal SVGA LCD w/Integral 7H Hardness Touch Panel – Glove Touchable
Dedicated High Brightness POWER, NORMAL, ALARM LEDs, Visible from 75’ (23 m)



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- Communications: Two (2) RS-232 Included Standard, RJ-13 Jack
Single RS485 Included Standard, RJ-13 Jack (For Pneumercator Peripherals)
Ethernet TCP/IP Port Included Standard
USB Host and Client Included Standard
Internal, Secured Modem, Cellular Modem, Single/Dual-Channel ModBus Optional
- Probe/Sensor Capacities: 4 Magnetostrictive Probes, 8 Leak or Point-Level Sensors
- I/O, Non-Haz.: Standard: 2 Relays, 1 Form C, Rated 10 A@120 VAC, 6 A@240 VAC, w/ 2 Opto-Isolated Inputs
Expansion Slot Options:
4 Relays, 1 Form A, Rated 5 A@120 VAC, 5 A@240 VAC, w/ 4 Opto-Isolated Inputs
8 Relays, 1 Form A, Rated 5 A@120 VAC, 5 A@240 VAC
4-Ch. Programmable Analog Outputs: 0-1 mA, 0-20 mA, 0-24 mA, 4-20 mA, 0-5 VDC, 1-5 VDC

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 °F (0.0006 °C) Temperature: 0.001 °F (0.0006 °C)
- 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 °F to 175 °F (-40 °C to 80 °C)
- 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
- 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' (3.1 m to 6.1 m) depth
- HS100ND Polymer – Dry Containment, 1' to 45' (0.3 m to 13.7 m) length
- LLP203 3 GPH Catastrophic Line Leak Detector

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

Remote Displays

- ETD1000 Addressable, Multi-Drop, Remote Electronic Tank Display Panel
- ETD1000T Addressable, Multi-Drop, Remote Electronic Tank Display Panel with Color Touchscreen
- RA400 Addressable, Multi-Drop, Programmable Remote Audible/Visual Alarm Panel
- ETD1000W Wireless Remote Electronic Tank Display Panel*
- ETD1000TW Wireless Remote Electronic Tank Display Panel with Color Touchscreen *
- RA400W Wireless Programmable Remote Audible/Visual Alarm Panel*

*Note: MPX200 Master Peripheral Expansion Module required.

Certifications / Approvals

- UL/cUL Approved, UL File E129464

70007 - TMS4000M Spec Sheet - 4-2-2024
Note: Specifications subject to change without notice.



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