

Does your Automatic Tank Gauge (ATG) Systems meet your future needs?

(Loss Control - Safety - Environmental - Operational)

- ✓ **Volume Measurement to Custody Transfer Accuracy**
(API 16.2 and/or API 3.6)
- ✓ **Quality Measurement - Product (Fuel)**
Product Stratification (Multi-point Temperature, Multi-strata Density & Water)
Automatic Sampling (Based on API 8.1, Upper-Middle-Lower)
- ✓ **Overfill Protection (API 2350)**
- ✓ **Vapor Protection (Tank Over Pressure & Tank Vacuum)**
Pressure Relief Vent Monitoring
Gas Blanket Monitoring
- ✓ **Unauthorized Product Movement**
Leak Detection (Mass Sensitivity)
Improper Line-up's (Product Contamination)
Theft
- ✓ **Vapor Emissions Monitoring (Measured Parameters)**
- ✓ Provides: Volume, Mass, Level, Multi-point spot temperature, Average temperature, Multi-strata density, Average density, Total water (Free, Emulsified, & Entrained), Vapor (Pressure, Temperature, & Density), Ambient (Pressure, Temperature, & Density), Flow rate (Volume, Mass), and Tank Bottom / Roof Movement Indicator.
- ✓ Applications:
Transfer Tanks; MTG and Metered (Yield Analysis)
In-Tank Blending, Mixing, Heating (Crude, Lubricants, etc.)
Water – Settling Tanks, Gun Barrel Tanks, etc.



Overfill Alarms activated by direct Pressure
Hi-Hi, Hi, Lo, & Lo-Lo

Manual reference gauge (Hand lines & sampling)

Vapor Monitoring

Critical Sensor $P_T T_T$

Volume

High-High Sensor $P_{HH} T_{HH}$

High Sensor $P_H T_H$

Level

Density Stratification

Temperature Stratification

Calibration Sensor $P_C T_C$ and/or Low-Low Sensor $P_{LL} T_{LL}$

Water Stratification

Low Sensor $P_L T_L$

Total Water Volume

Critical Sensor $P_B T_B$

Mass

Mass Sensitivity for Unauthorized Movement: Leak Detection
Product Contamination, Theft, etc.

MTG 3018 316SS Housing includes fully independent transmitters for the:
* MTG 3012 Multi-function Tank Gauge &
* MTG 3006 Overfill Protection Transmitter

Optional: Ambient Sensor $P_0 T_0$

Optional: Tank Floor Movement Indicator

Tank Flange - See Options

Vapor Sensor $P_1 T_1$

VAPOR DENSITY, TEMP., & PRESSURE
Tank Over Pressure or Vacuum Monitoring, Gas Blanket, and Pressure Relief Valve Monitoring

Middle Sensor $P_2 T_2$

DENSITY STRATA 2:3

Middle Sensor $P_3 T_3$

DENSITY STRATA 3:4

Middle Sensor $P_4 T_4$

DENSITY STRATA 4:5

Middle Sensor $P_5 T_5$

DENSITY STRATA 5:6

Middle Sensor $P_6 T_6$

DENSITY STRATA 6:7

Middle Sensor $P_7 T_7$

DENSITY STRATA 7:8

Middle Sensor $P_8 T_8$

DENSITY STRATA 8:9

Middle Sensor $P_9 T_9$

DENSITY STRATA 9:10

Middle Sensor $P_{10} T_{10}$

DENSITY STRATA 10:11
Free Water, Emulsified Water, & Entrained Water; Total Water Volume (TWV)

Bottom Sensor $P_{11} T_{11}$ **TEMPERATURE / PRESSURE**
Bottom Footer (UMHW Standard; Magnetic Optional)

MTG™ Patented Technology
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