

# Overfill Protection and Rupture Protection

The GSI 3004 MAP “Multi-function Alarm Probe” in accordance to API Standard 2350, offers Overfill Protection (Critical Height, AOPS or MOPS, High-High, and Maximum Working Height) alarms.

Like all MTG Technology with Atmospheric and Vapor Sensors, the MAP 3004 also monitors for Over Pressure or Vacuum forming in the tank.

Additionally, the MAP 3004 can be used with the TG Soft Server with Historian APP to monitor Pressure Relief Vent (PRV) settings (Monitoring the vapor pressure at release, duration of the release, vapor temperature, vapor density, etc.)

## Physical Description:

The MAP 3004 is a solid SS probe (built and installed in sections) that hangs from the mounting flange from the top of the tank. The length of the probe is based upon the distance from the flange height down to the Maximum Working Height, usually 6 - 15 feet in length. Note: It doesn't include an alarm point at the Low Level, but still monitors for Vacuum. An I.S. Instrument, RS 485 (See control drawing) 12-14VDC, MODBUS RTU protocol

Also see the MAP 3002, MOP 3006, or HLAS 4100.

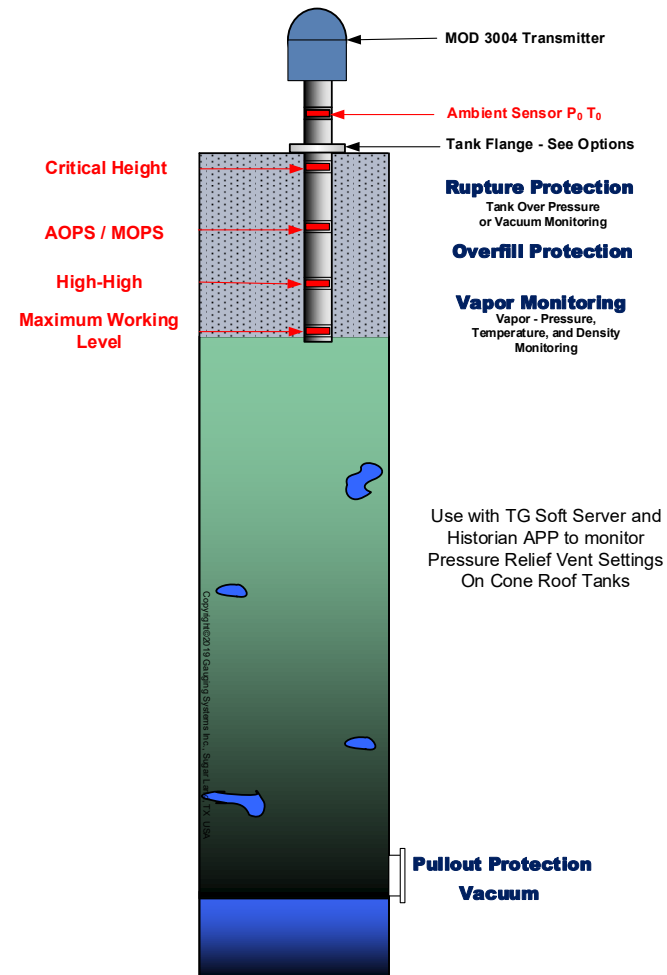
## Alarms displayed:

A secondary TG Soft Server with can be installed with the (Overfill & Vapor) Alarm APP and the Historian APP. It would provide an annunciator panel (graphical display of alarms & acknowledgement), alarm & Event log from the MAP 3004, MOP 3006, MVS 3002, or HLAS 4100.

The primary TG Soft Server would be used for the Tank Gauging (Inventory). The redundant or separation of primary and secondary systems would meet API 2350 requirements.

## MAP 3004 MULTI-FUNCTION ALARM PROBE

*Overfill and Rupture Protection*



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MTG “Multi-Function Tank Gauge” is patented technology

