

2500 Automatic Tank Gauge

Simple and reliable liquid level measurement bulk storage applications

Varec®

Highlights

- Meets API Chapter 3.1B regulations for inventory control applications
- Low cost, continuous measurement – up to 0.2" (4 mm) accuracy
- No power required for continuous operation
- Easy to read display – metric or imperial in decimals or fractions
- ATEX approved for use in potentially explosive atmospheres
- Optional Negator Cassette for reduced maintenance and increased safety

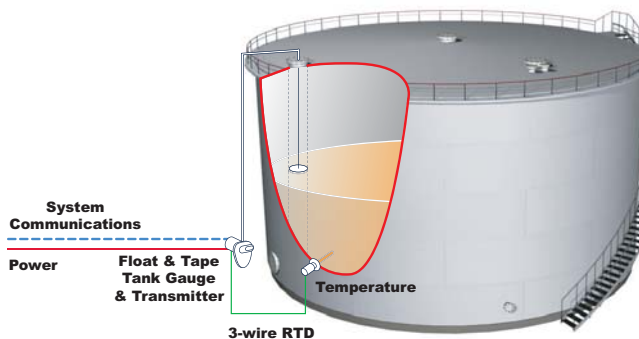


Application

The 2500 series of Automatic Tank Gauges (ATG) are mechanically operated, float and tape instruments designed to provide continuous liquid level measurement in bulk storage applications.

The measured level is displayed using a dial and counter built into the gaugehead. The 2500 ATG has many product options that allow it to be installed on the tank roof or at the tank side (at grade), which would facilitate ground level reading by the operator. If electronic transmission of level data or temperature measurement integration is required in the control room, then the gauge can be fitted with an optional tank gauging transmitter.

The 2500 ATG utilizes a large stainless steel float that is attached to the stainless steel perforated tape to detect the liquid level. The float follows the liquid level as it rises and falls due to the constant pullback tension provided by a powerful negator spring or cartridge motor. The precisely perforated tape engages pins on a sprocket wheel that in turn drive the counter assembly. This simple design and operation allows the gauge to perform with negligible maintenance throughout its working life.



Example Tank Gauging System

Product Options

Gaugehead Materials

- Aluminum or iron

Units of Measure

- Metric, meters/decimeters/centimeters
- English, decimal feet or fractional

Operation

- Negator motor or negator cassette
- Float crank

Float options

- Standard
- Interface
- Stilling well applications

Installation Kits

- Cone roof tank with or without a pan or floatwell
- Floating roof tank with or without a floatwell
- Tank top
- Bolted tank
- Interface or stilling well
- Mounting for transmitters

Service Kits for aggressive product applications

- Standard
- Moderate
- Extreme

Technical Specifications

Product gravity range	0.7 to 1.9 g/cc (700-1900 kg/m ³) specific gravity
Service rating	Aluminum— Atmospheric to 2.5 PSI (17.2 kPa) gauge pressure Cast Iron — Atmospheric to 14.9 PSI (102.73 kPa) gauge pressure
Gauging range	0 – 60 ft (18 m)
Extended range	0 – 90 ft (27 m) Fixed roof tanks only, requires extended range kit
Ambient temperature ranges	-40 to +185 °F (-40 to +85 °C)
Materials	Dependent on installation type and parts selected
Shipping weight	45 lbs. (20.4 kg) to 80 lbs (36.3 kb), depending on the specific options ordered
Approvals	ATEX II 1 G Certificate Number: FM06ATEX0009 IP66 (optional)

Transmitters for Inventory Control

- 2910 Alarm Limit Switch
- 2910 Float & Tape Transmitter
- 2920 Float & Tape Transmitter
- 8200 Current Output Transmitter

Accessories

- Oil Seals
- Drive Elbow Modification Kit
- Manways and Inspection Covers
- Float Grounding Kit
- Teflon Tape Wipe
- Shock Absorber

