

# 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.



## Product Options

### Gaugehead Materials

- Aluminum or iron

### Units of Measure

- English, metric, decimal, or fractional

### Operation

- Negator motor or negator cassette
- Float crank

### Float options

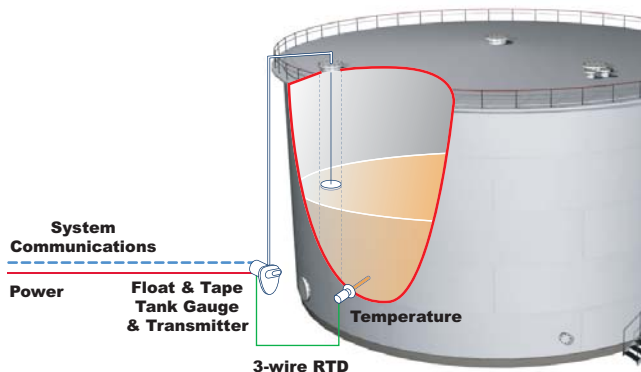
- Standard
- Interface
- Stilling well applications

### 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



Example Tank Gauging System

### Technical Specifications

<b>Product gravity range</b>	0.7 to 1.9 g/cc (700-1900 kg/m <sup>3</sup> ) specific gravity
<b>Service rating</b>	Atmospheric to 2.5 PSI (17.2 kPa) gage pressure
<b>Gauging range</b>	0 – 60 ft (18 m)
<b>Extended range</b>	0 – 90 ft (27 m) Fixed roof tanks only, requires extended range kit
<b>Ambient temperature ranges</b>	-40 to +185 °F (-40 to +85 °C)
<b>Materials</b>	Dependent on installation type and parts selected
<b>Shipping weight</b>	65 lbs. (30 kg) (nominal; weight increases with various kits)
<b>Approvals</b>	ATEX II 1 G Certificate Number: FM06ATEX0009 IP66 (optional)

### Transmitters for Inventory Control

- 2557 Alarm Limit Switch
- 2910 Float & Tape Transmitter
- 2910 Float & Tape Transmitter Limit Switch Only
- 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
- Gaugehead/Conduit Connector Kit



Varec, Inc., 5834 Peachtree Corners East, Peachtree Corners (Atlanta), GA 30092 USA

Tel: +1 (770) 447-9202 | Toll Free: +1 (866) 698-2732 | Fax: +1 (770) 662-8939 | [www.varec.com](http://www.varec.com)

2015 © Varec, Inc. All Rights Reserved. This document is for information purposes only. Varec, Inc. makes no warranties, express or implied, in this summary. The names of actual companies and products mentioned herein may be the trademarks of their respective owners. Document

Code: TEC059GVAE3916