

ATG solution for tank truck

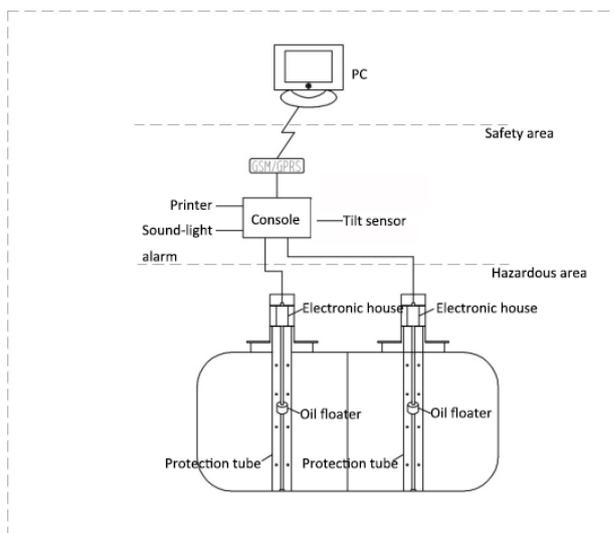
Introduction

Pushing forward construction of HSE and fine management of gas station has been one of the key work of oil company. When the tank truck arriving at the gas station, there is a metering operation before unloading oil; and the metering operation has a close relationship with the HSE and fine management.

After the tank truck arriving at the gas station, the traditional operation of the gas station worker is getting on the top of the truck, opening the gauge hatch, then metering oil level, and oil is volatilizing at the same time. Thus leaving huge hidden troubles for the HSE management of the gas station. Moreover, the traditional manual measurement method also exist problems like, large measuring error, error prone, and all of this go against the fine management.

Introducing the tank truck ATGS, can completely solve the problems like, higher level working on the top of the tank truck, oil volatilizing, and manual measurement defects.

Composition of the tank truck ATGs

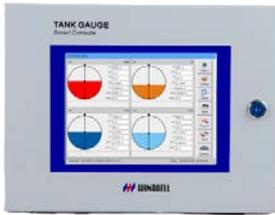


- Adopting magnetostrictive probe to collect oil level and temperature data, which have advantages of high precision and strong stability.
- The controller use a color touch screen, graphical interface display, and can connect to other external modules according to actual demand.
- Tank truck information can be uploaded to the PC background timely and effectively, so user can query information through various channels.



Main products

◆ **SS160plus tank gauge console**



SS160Plus Tank Gauge Console is an enhanced console in Windbell console family. With the console you can

watch the detail information of underground storage tanks or aboveground storage tanks, like fuel density, product level, water level, temperature, etc. It is also the communication display platform between ATGs and users and has open communication protocol to fuel management system. Configurations like alarm value, tank information, etc, also can be user-defined.

◆ **Magnetostrictive probe**



Windbell SP series magnetostrictive probe take advantages of Wiedemann effect, Villari effect and

Ultrasonic effect of intelligent material, by measuring time value difference which can be easily measured with high-precision, to convert to displacement difference, can accurately measure the product level, water level, product density and temperature in tank.

◆ **DTU module**



USR-G780 is a 4G DTU, support FDD-LTE, TD-LTE 4G high speed access, support WCDMA, TD-SCDMA and GSM as well.

Perfect software, can realize data bidirectional transparent transmission from Serial to Network. It supports custom registration package, heartbeat package, 4 Socket connection, and USR-Cloud access. With high speed, low latency, support FTP protocol upgrade.

◆ **Tilt sensor**



The tilt sensor support Modbus-RTU protocol, and the output mode is RS485 interface. With the sensor, the

interference caused by mechanical vibration and the influence of acceleration and impact on angle measurement can be effectively avoided.

◆ **Sound-light alarm**



An alarming device that sends a warning signal to people through sound and light.

Features of the tank truck ATGS

- **Security and environmental protection**
 - ✧ Automatic measurement, do not need to get on the top of the tank truck to measure oil level manually, can avoid the higher level working, safe operation.
 - ✧ No need to open the gauge hatch to measure oil level and temperature, can effectively reduce the harm of oil and gas volatilization to human bodies, safety and environmental protection.
- **Fine management**
 - ✧ Automatically measure oil level in oil chamber, can avoid measuring error caused by manual operation habits and technical difference between manual itself.
 - ✧ Out of the tank gauge probe, there is a protective tube, can effectively reduce the great influence on the measuring result caused by big liquid level fluctuation during oil transportation.
 - ✧ By using the reading data of the tilt sensor to compensate the tank level gauge data, to avoid the error caused by the uneven terrain environment. Thus the measurement data is more accurate.
 - ✧ Through the printer can print the real time inventory data accurately, which avoids the error information record caused by the human negligence.

● **Intelligent management**

- ✧ By using GPRS / CDMA / 4G wireless communication technology can achieve remote management of data. And user can real time monitor oil information in tank truck through the background system.
- ✧ Through the SMS notification, users can obtain tank trucker information timely.

Product solution

Name	Model	Quantity	Remark
Tank gauge console	SS160plus	1	
Probe	SP300	1	
Tilter sensor		1	
DTU module	4G	1	
Sound-light alarm	BBJ-Z/RE	1	Optional

Contact us

Add: No.9, Changchun Rd, High-tech Development Zone, Zhengzhou, China 450001

Tel: +86-371-60301609

Fax: +86-371-60301612

Web: www.windbellgauge.com

E-mail: sales@windbelltek.com

samuelzh@windbelltek.com

Cell & WhatsApp: 0086 137 8350 0071
0086 158 3716 0322