



90 | WIRELESS MONITORING SOLUTION FOR HIGHLY CORROSIVE CHEMICALS

KEY PRODUCT FEATURES

- Ceramic differential pressure sensor solution, with TankGuard 90.
- Stands up to challenges associated with monitoring highly corrosive chemicals.
- Easier to install and eliminates false readings and bouncing associated with ultrasonic sensors
- Innovative, ultra-low profile monitor enclosure and internal antenna for corrosive chemical compatibility and ruggedness. Monitor can be removed and redeployed
- Leverages technology that operates on 3G/4G networks, for longevity

The Tankguard 90 ceramic DP sensor monitoring solution redefines what's possible when monitoring highly corrosive chemicals. How? By delivering a differential pressure sensor in a heretofore ultrasonic world. We couple our innovative form factor TankGuard 90 monitor with a ceramic DP sensor that will stand up to the harshest chemicals. The result? Easier installation and higher accuracy level readings. by placing the sensor at the bottom of the tank and avoiding vapours on top that can cloud the measurement.

Discover how our ceramic DP sensor solution is easier to install and eliminates interference and false readings. Visit www.FreeFormPlastics.com or call 1-306-275-2155

Lowest Profile in the Industry

The unique, low profile domed design of the TankGuard 90 minimizes the height of the exposed part of the device to less than two and one-half inches above the vessel. The electronics are housed safely in the portion of the device recessed within the tank, and the antennae are under the domed cover. So, whether your tank/totes are stacked or not, the hardware is out of harm's way.

Integrated GPS for Asset Tracking

Knowing exactly where your tanks and totes are is often just as important as knowing level, temperature and other tank information. The TankGuard 90 features integrated GPS functionality as well as Map Pin capability, enabling you and the driver to know where the tank is, whether you're on the lot or miles away, and whether the tank is outside or inside a building. Location information is at your fingertips, through TankLocator and TankData Online.

Data When & Where You Need It

To meet the challenges of supplying or replenishing chemicals, you need to know

- Current inventory position of the tank(s) in use
- How many other tanks are at the customer location
- How many are full and how many are empty
- Exactly where they are

The TankGuard 90 and TankData Online give you the information you need to maximize supply chain efficiencies and customer service while minimizing costs.

TankGuard 90 Specifications

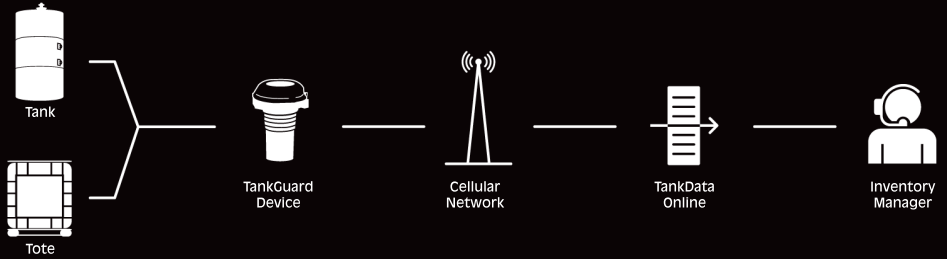
- **Construction:** ROHS Compliant
- **Enclosure:** NEMA 4X; weatherproof, UL approved (UL94V-0); CPVC
- **Process Fitting:** Simultaneous 2" NPT and 2" Buttress
- **Unit Gross Weight:** 1.3 lbs. (454g)
- **Operating Environment** (monitor)
Storage Temperature Range: -40°F to 185°F (-40°C to 85°C)
Operating Temperature Range: -13°F to 158°F (-25°C to 70°C)

Cellular Communications

- **Mode:** GSM Digital Wireless Radio
- **RF Approval**
FCC Part 15 B approved
- **Frequency Bands:**
GSM 850/1900 MHz
- **GPS Receiver:** Internal Antenna
- Optional External GSM Antenna

Performance Specifications

- **Output Voltage:** Nominally 14V/24V
- **Output Current:** Rated from 0 - 50mA
- **Load Regulations**
0.5% from @ 30mA load
- **Ripple:** 50mV Peak-to-Peak
- **Output Short Circuit Protection:**
Current limited to 50 mA
- **Accuracy:** +/-0.25%, +/-0.50%, +/-1.0%
Based on requirements.



Boldly Goes Where No Differential Pressure Sensor Has Gone Before

Corrosive chemicals and acids like HCl and H₂SO₄ can wreak havoc on the average stainless steel DP sensor, causing operators to rely on harder to install ultrasonic sensors that can produce false readings due to bouncing off vapors instead of liquids. That all changes with the TankGuard ceramic DP sensor monitoring solution. Now, with a ceramic housing protecting the sensor from corrosion, you can use a reliable, accurate DP sensor at the bottom of the tank and avoid the vapour effect that ultrasonic sensing can produce.

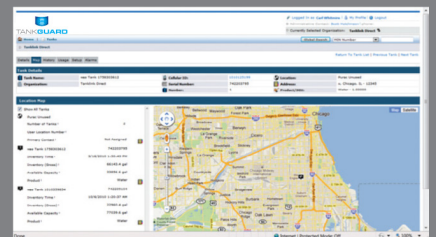
Our single-source solution of hardware, sensor and data delivery service provides secure, key tank information 24/7. In the office or in the field, you'll know the tank location, level and when replenishment is needed.

Contact us for a detailed consultation, recommendation and quote on the TankGuard 90 wireless monitoring system with ceramic DP sensor and find out how our total solution increases your operating efficiency and profits.

Performance Specifications

Fill in your company's actual Average Daily Cost and your Delivery Efficiency Target, and calculate your own potential savings

Tank Data Online



TankGuard's web portal provides 24/7 critical information to enable the most efficient replenishment and delivery decisions.