



NOW GET WIRELESS TANK MONITORING OPERATING ON OUR GLOBAL SATELLITE NETWORK

The iTankData ST90 SAT satellite monitor provides remote monitoring of tank inventory levels any time, any tank, anywhere.

This robust solution operates on the Iridium low orbit satellite constellation network for global coverage and duplex communication.

For convenience, the ST90 SAT supports over-the-air configuration updates. It's remarkably easy to install with magnetic mounting—just drop in the sensor and the unit is activated using the attached magnet. Connect the magnet to magnet icon on the table and it's done. The unit can be removed and redeployed at any time. In addition, each system will be customized with the correct differential pressure sensor and appropriate cable. The CPVG enclosure and the electronics is manufactured with materials that ensure total compatibility with the wetted material being monitored. Adding the its remote capabilities, the satellite communication

HARDWARE SPECIFICATIONS

PHYSICAL

Construction:	ROHS Compliant
Enclosure:	NEMA 4X: weatherproof, flame-resistant, Lexan top, CPVC base (UL94V-0)a
Process Fitting:	Simultaneous 2" NPT and 2" Buttress
Unit Gross Weight:	Sensor unit: 1.3 lbs (590g) Satellite Communications 1.18 (535g)

WIRELESS COMMUNICATIONS

Mode:	Iridium Satellite Short Burst Data time Domain Duplex TDMA FDMA1616.5 MHz
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component of the ST90 SAT utilizes a rechargeable internet battery that is recharged using solar energy. High-tech electronic hardware, global satellite communications/location, wireless communications and a secure web portal gives you access by cell phone and desktop. The 24/7 visibility into the tank, give you maximum control over distribution, inventory and vessel management.

OUR TANK DATA PORTAL DELIVERS:

- Tank level
- Tank locating (5 ways including GPS)
- Inventory temperature
- Solar Powered Rechargeable Battery Voltage Level
- Rate of Consumption
- Low & Critical High Alerts and Alarms
- Usage History Report
- Efficiency Reports
- Fill-detect Delivery Report
- Text/Email Notifications

RF Approval FDC CFR parts 15 and 25

GPS Receiver: Internal

LAN/WAN Wideband 900MHz, 300ft. Line of Sight

PERFORMANCE

Output Voltage:	Nominally 14V/24V
Output Current:	Rated from 0-50mA
Load Regulation:	0.5% from @ 30mA load
Ripple:	50mV Peak-to-Peak

Output Short:

Circuit Protection: Current limited to 50 mA
Accuracy: \pm 0.5% Full Scale of Range (BFST)

KEY FEATURES:

- Iridium Satellite network for global coverage
- Factory sealed lid with no opening required to activate
- Host-Client WLAN Capabilities, Range: 300ft. Line of Sight
- Supports ST95 C1D1 client monitors via WLAN for haz-loc applications.
- 10 year service life, solar powered with power save modes
- Ease of install and moves from one tank to another
- Low profile enclosure and internal antenna for enhanced chemical compatibility and durability
- Integrated GPS functionality for locating assets
- Choice of sensors to ensure compatibility and with customizable degrees of accuracy for any application and any budget.
- OTA configurable updates to tank alarms and alerts

