SENTRYNET SAT Radar tank monitor

Digital inventory management

Applications

- Unconventional oil and gas
- Onshore
- Offshore facilities

Features and Benefits

- Utilizes radar technology for level sensing
- Fully integrated satellite, GPS and Radar
- 3-5 year battery life
- Class 1, Division 1, non-chemical contact solution
- 30 ft depth measuring range
- Provides critical tank data availability 24/7 without entering the hazardous location
- Decreases chemical costs
- Optimizes chemical usage
- Ensures adequate chemical is available with real-time access to tank levels
- Provides secure, reliable access to tank information in real-time
- Incorporates email and text messaging alerts for managing inventory
- Leverages technology that operates a satellite network
- Prevents unnecessary trips to well sites

The SENTRYNET™ SAT radar tank monitor from Baker Hughes is a satellite remote monitoring system combined with several industry-first features that redefine what's possible with monitoring chemical inventory in Class 1, Division 1 hazardous rated locations. Operators and management can maximize employee and plant safety and monitor tanks in hazardous locations remotely for critical level, location, daily usage history information and more, without being in those hazardous areas.

Specifically engineered for a low profile and to be intrinsically safe, the SENTRYNET SAT Radar tank monitor performs where others can't.

Our single-source combination of IS hardware, software and data service provides secure key tank information 24/7. In the office or in the field, you'll know the tank level, precisely where it is, and when replenishment is needed. This helps maximize operating efficiency by eliminating runouts, having to make costly emergency deliveries and avoiding losing the asset. It also helps you optimize plant and employee safety practices.

The SENTRYNET SAT Radar tank monitor can be used in Class 1, Div 1, Group C, D T4 Hazardous Locations, and is certified Intrinsically Safe by CSA Group.

Specifications

Physical

Unit Enclosure:	Polycarbonate. Clear for display and painted white inside. IP64.
OLED Display:	2x16 character for easy outdoor viewing and local display of inches, gallons, programming, and status
Satelite Gateway:	STX3 operates on the Globalstar LEO satellite network. Tx Power
Main Control PCU:	**TI MSP430-4619 5Mhz**
Operating System:	Salvo multitasking
Display and Keypad buttons:	OLED 2X16 character display. up, down, learn, reset, wake
Lower Power Mode:	<.1mA when sleeping
Radar:	76-81 GHz. 8-degree beam angle. 3-30ft range. 5VDC at .3Amp for 3 seconds to take a depth reading
Typical Accuracy:	+/- 0.25"
Battery:	Tadiran lithium-thionyl chloride TL-5930 7.4V 19Ahr -67F to 185F (-55 °C to +85 °c) .3A max. .0003 typical
GPS:	72-channel u-blox 8 engine GPS 1.575.42MHZ glonass 1602MHZ. GPS L1C/A, SBAS L1C/A, QZSS L1C/A, GLONASS L1OF. Accuracy GPS 2.5m Glonass 4m first fix 30s
Bluetooth:	Optional to communicate with an iPhone APP for remote programming optional Remote display of Depth and Gallons

Environmental

Operating temp:	-67°F to 185°F (-55°C to 85°C)
Certifications	UL913 Class I Div 1 Gp C, D T4 -20°C<Tamb<40°C

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