FLOAT SCOUT
Intrinsically Safe Wireless Tank Level Monitoring

RUGGED OIL FIELD PROVEN
COMPLETE WIRELESS TANK LEVEL MONITORING SOLUTION
WIRELESS CONFIGURATION

DESCRIPTION

The SignalFire Float Scout consists of a magnetostrictive level probe mated with a Sentinel wireless node which creates a wireless link between the sensor and the Gateway. The Sentinel will take level and temperature readings, and send the data (via the SignalFire wireless mesh network) to the Gateway where the data is available via a Modbus RTU or TCP interface. The system is powered by internal lithium batteries or optional C1D1 rated solar package. Sensor data along with node-diagnostic information is available at the Gateway.

FEATURES

- Available with flexible or rigid magnetostrictive level probe with single or dual floats for level and interface measurements
- Integrated temperature sensor to measure fluid temperature
- Class 1 Division 1 intrinsically safe
- Rugged design for demanding outdoor environments
- Up to 1/2 mile range
- 1” NPT mounting interface
- Automatically configures as a star or mesh network

RIGID FLOAT SCOUT
Intrinsically safe wireless tank level monitoring

FLEXIBLE FLOAT SCOUT
Intrinsically safe wireless tank level monitoring
FLOAT SCOUT
Intrinsically Safe Wireless Tank Level Monitoring

TECHNICAL SPECIFICATIONS

**Operating Temp**
-40°C to 60°C | -40°F to 140°F

**Power**
3 X D Lithium battery pack. Field replaceable. Class 1 Division 1 certified.

**Battery Life**
1 min. check-in: 5+ years, 5 min. check-in: 10+ years

**Data Interface**
Wireless - Modbus data available at GW

**Reported Values**
Product level, interface level, temperature, status.

**Data Update Rate**
User selectable - 5 seconds to 1 hour

**Radio Power**
40 mW

**Antenna Type**
Internal weather resistant, omnidirectional.

**Receive Sensitivity**
-109 dB

**Frequency**
902-928 MHz, FHSS license-free ISM band, FCC part 15 compliant.

Range
Up to 1/2 mile

Networks
Up to 65,520 separate networks

Diagnostics
Battery voltage, signal strength, error conditions, Faults

LEVEL PROBE

**Measurement Resolution**
0.0001”

**Repeatability**
Equal to Resolution

**Linearity**
± 0.01% of span or ± 0.039”, whichever is greater.

**Material**
Flexible: PVDF. Rigid: 316 Stainless

**Dead Band**
Flexible: 6”-17” depending on sensor length.
Rigid: 2”

**Length**
Flexible: 65” to 600”. Rigid: 20” to 288”. Available in 1” increments

**Ultraflex Model:**
-40°C to 70°C | -40°F to 158°F