

# FLOAT SCOUT

Intrinsically Safe Wireless Tank Level Monitoring

RUGGED OIL FIELD PROVEN

COMPLETE WIRELESS TANK LEVEL MONITORING SOLUTION

WIRELESS CONFIGURATION



## DESCRIPTION

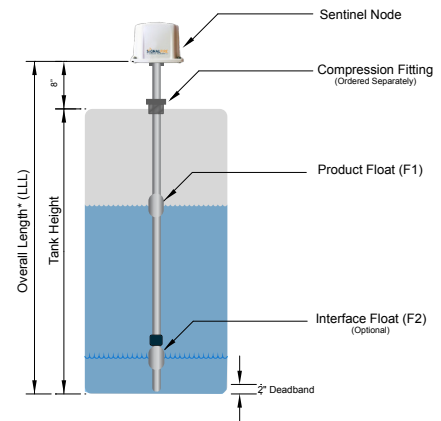
The SignalFire Float Scout consists of a magnetostrictive level probe mated with a Sentinel wireless node which creates a wireless link between the sensor and the Gateway. The Sentinel will take level and temperature readings, and send the data (via the SignalFire wireless mesh network) to the Gateway 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

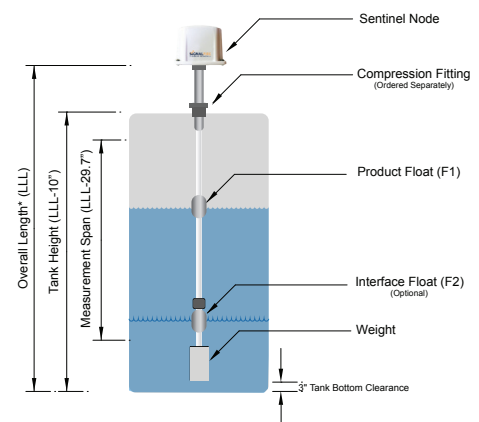
## RIGID FLOAT SCOUT

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## FLEXIBLE FLOAT SCOUT

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# FLOAT SCOUT

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## 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

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## 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

