

TANK LEVEL FLOAT STICK SYSTEM

Intrinsically Safe Wireless Tank Level Monitoring

RUGGED OIL FIELD PROVEN

COMPLETE WIRELESS TANK LEVEL MONITORING SOLUTION

WIRELESS CONFIGURATION



DESCRIPTION

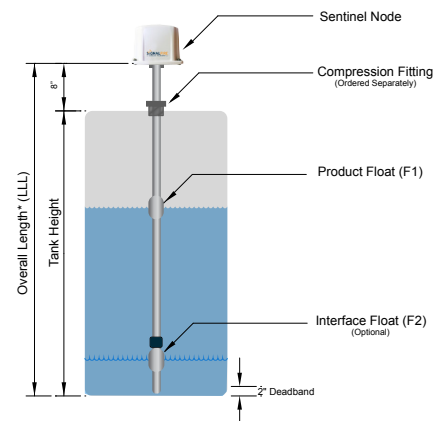
The SignalFire Tank Level Float Stick System consists of a magnetostrictive level probe mated with a Sentinel wireless node which creates a wireless link between the sensor and the Gateway. The Sentinel will take level and temperature readings, and send the data (via the SignalFire wireless mesh network) 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 (certification pending)
- Rugged design for demanding outdoor environments
- Up to 1/2 mile range
- 1" NPT mounting interface
- Automatically configures as a star or mesh network

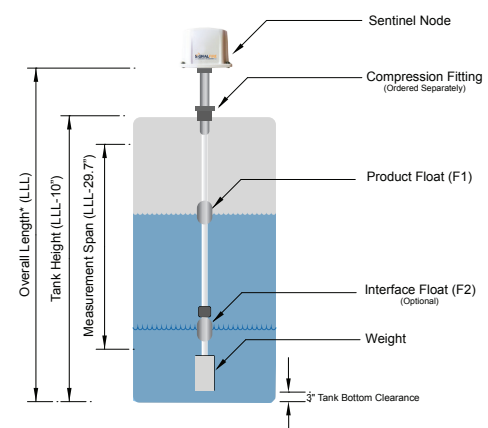
RIGID TANK LEVEL FLOAT STICK SYSTEM

Intrinsically safe wireless tank level monitoring



FLEXIBLE TANK LEVEL FLOAT STICK SYSTEM

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TANK LEVEL FLOAT STICK SYSTEM

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TECHNICAL SPECIFICATIONS

Operating Temp

-40°C to 60°C

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 65520 separate network

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

