

# Battery Operated Tank Monitoring

## Description

InvigiSense is an easy to install, web-based tank level monitoring solution. Simply screw the sensor into a standard 2" tank port and view the data online using the device of your choice, including your smartphone. Alerts are automatically emailed when tank needs servicing. Available with GPS.

## Operation – Liquid Logistics

Cost effective InvigiSense systems greatly improve operational efficiency, by providing 24/7 tank monitoring which reduces costs and increases gross margins, eliminating the guesswork by preventing run-outs, overflows and spills.

## High Accuracy, Just-In-Time Collections and Deliveries

- **RECONCILIATION ACCURACY**
  - Level
  - Water Measurement (optional)
  - Temperature
- **REDUCE COSTS**  
Efficient truck routing reduces transportation costs. Eliminate manual tank measurement.
- **PROFIT & GROW**  
Add customers without having to add more trucks or drivers. Maximize gallons per drop or pick-up. !
- **IMPROVE SERVICE**  
Know when your customers' tanks need servicing before they do.

Part No.	Description
<b>TLM-DS</b>	High accuracy probe with Zigbee radio (requires gateway). Maximum tank height 23 feet.
<b>TLM-DK</b>	High accuracy flexible probe with Zigbee radio (requires gateway). Maximum tank height 23 feet.
<b>TLM-GW</b>	Gateway with 4G LTE CAT M radio and Zigbee radio (requires 120V AC power source). Recommended for three or more tanks. Up to 20 tanks per gateway.
<b>BOA-ZB</b>	Monthly service charge Zigbee data from sensor. Included for one tank, adder for each additional tank.
<b>BOA-FEE</b>	Monthly service charge cellular data from gateway to cloud.

**Part Number:**

**TLM-DS(W)\***  
**TLM-DK(W)\***  
 (\*W denotes water float option)



The Cloud

BOA-FEE Back Office Access

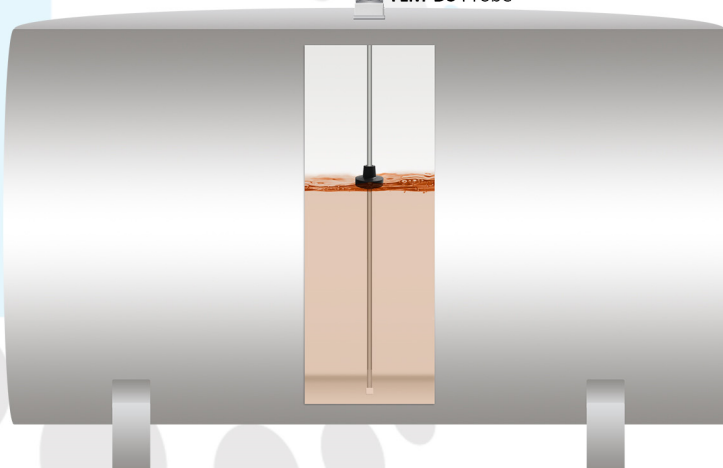
TLM-GW Gateway



BOA-ZB Back Office Access



TLM-DS Probe



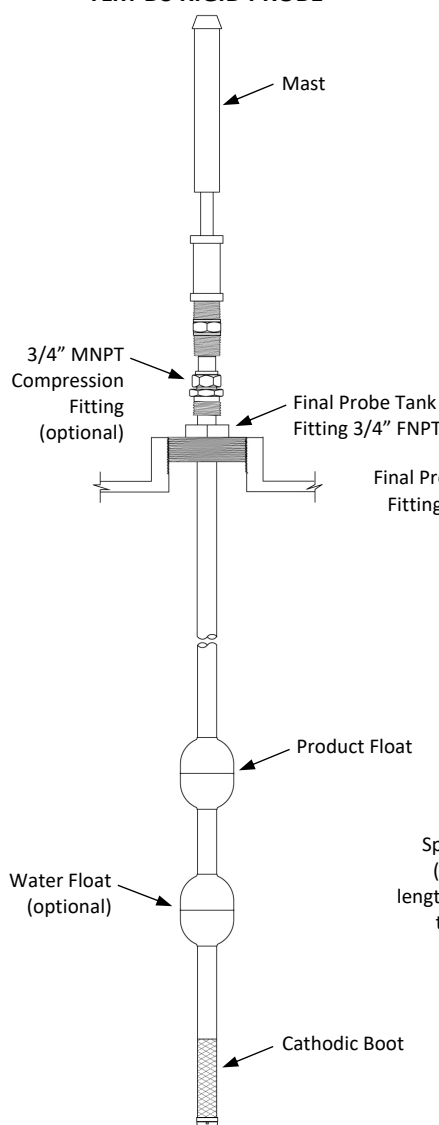
# Invigisense™ Battery Operated Tank Monitoring

## Part No. TLM-DS(W) & TLM-DK(W)

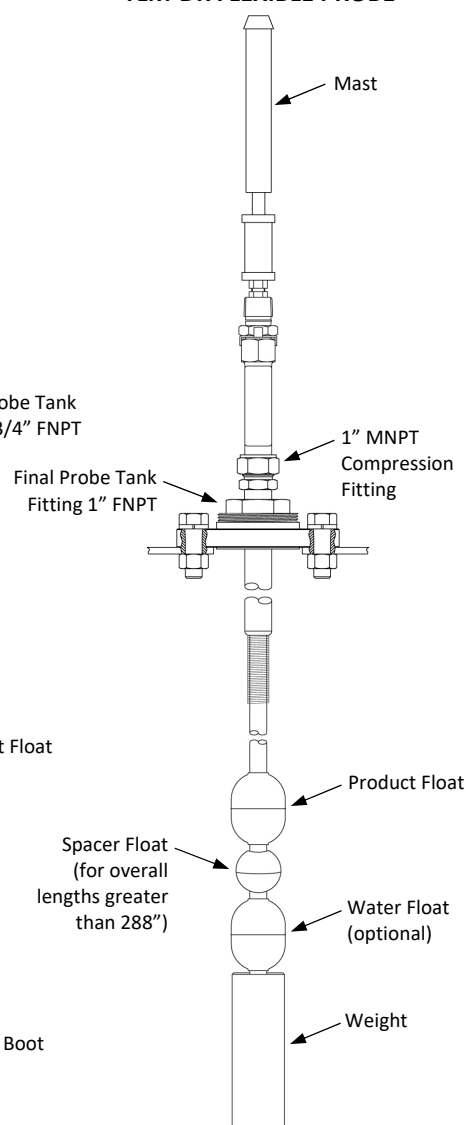
Specifications (TLM-DK) Flexible Probe Version	
<b>Power</b>	+5 VDC $\pm$ 10% typical (+3.7 VDC min.) 10mA max. (8mA typical) plus 1.5mA max. (1mA typical) per temperature sensor
<b>Measurement Length</b>	65" - 600"
<b>Resolution</b>	0.0001" (Protocol Dependent)
<b>Linearity</b>	Probes 65" to 600": $\pm$ 0.01% of span or $\pm$ 0.039", whichever is greater
<b>Repeatability</b>	Equal to resolution
<b>Operating Temperature Range</b>	-40°F to +158°F or -40°C to 70°C
<b>Enclosure Material Rating</b>	PVDF IP68
<b>Hazardous Areas Approvals</b>	FM / ATEX
<b>Accessories:</b>	SFS Spacer float (for overall lengths greater than 288")

Specifications (TLM-DS) Rigid Probe Version	
<b>Power</b>	Two D-cell lithium thionyl chloride batteries (1 for DataStik™ Probe, 1 for DataCheck™ Transmitter)
<b>Measurement Length</b>	Up to 24 ft. (7.3M)
<b>Resolution</b>	0.010"
<b>Linearity</b>	0.01%
<b>Repeatability</b>	Equal to resolution
<b>Operating Temperature Range</b>	-40°F to +159°F or -40°C to 71°C
<b>Probe Output to Transmitter</b>	Serial data
<b>Wireless Scheme</b>	Full Supervised Simplex 902-928 MHz FHSS
<b>Electrical Safety Approval</b>	CSA US/C Exia intrinsically safe
<b>Optional Accessories:</b>	SL-34 3/4" compression fitting

TLM-DS RIGID PROBE



TLM-DK FLEXIBLE PROBE



Specifications subject to change without notice, verify with manufacturer.

### Float Options



**2" Buna Float**

Part No. **BNF-2** (product and water float)  
**BNF-1-2** (product float only)



**4" Buna Float**

Part No. **BNF-4** (product and water float)  
**BNF-1-4** (product float only)



**2" Stainless Steel**

Part No. **SSF-2** (product and water float)  
**SSF-1-2** (product float only)



**4" Stainless Steel Float**

Part No. **SSF-4** (product and water float)  
**SSF-1-4** (product float only)



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W2 Series Weight (for Flexible Probe TLM-DK only)		
Overall Length	Weight Part No.	Dimensions (2" diameter)
65" - 144"	W2-144	5" (h)
145" - 288"	W2-288	7" (h)
289" - 600"	W2-432	11" (h)



**W2 Series Weight**