OMNTEC
Advanced Tank Monitoring & Leak Detection

invigicom

InvigiSense™
Battery Operated Tank Monitoring

Part Number: TLM03-C
TLM03-E
TLM03-E-GPS

Description

InvigiSense is an easy to install, web based sensor solution. No cables, tapes or floats required. 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.
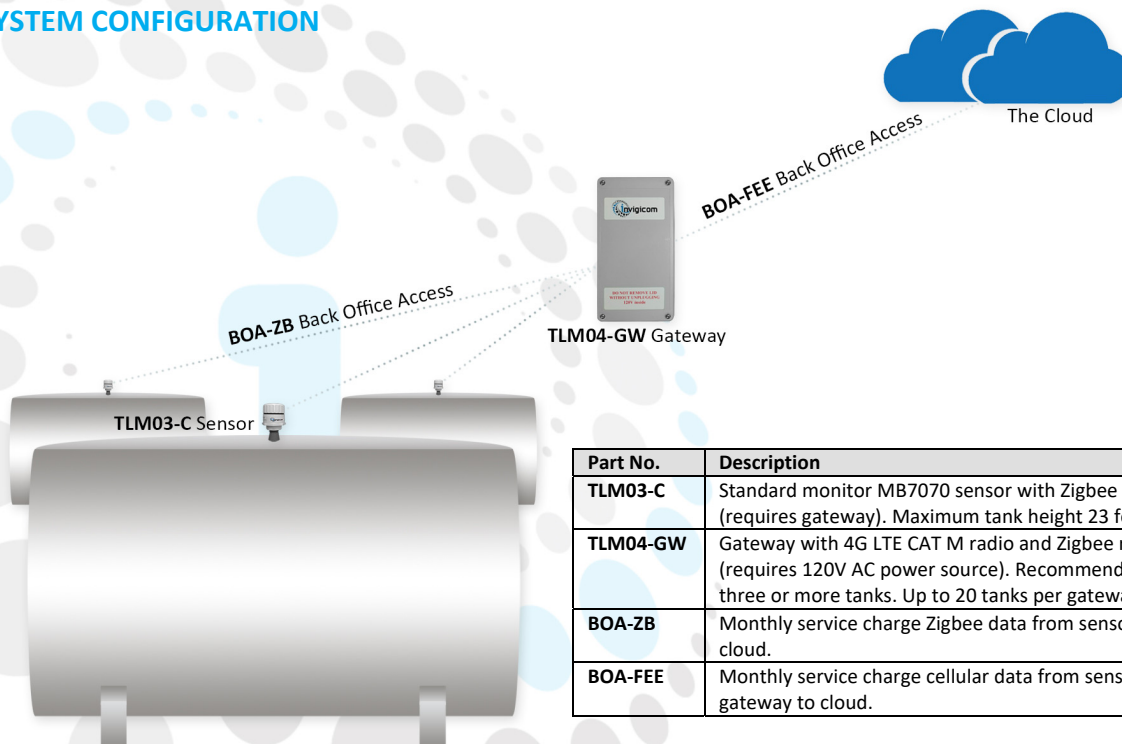
Just-In-Time Collections and Deliveries

- **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.

Eliminate Manual Tank Readings
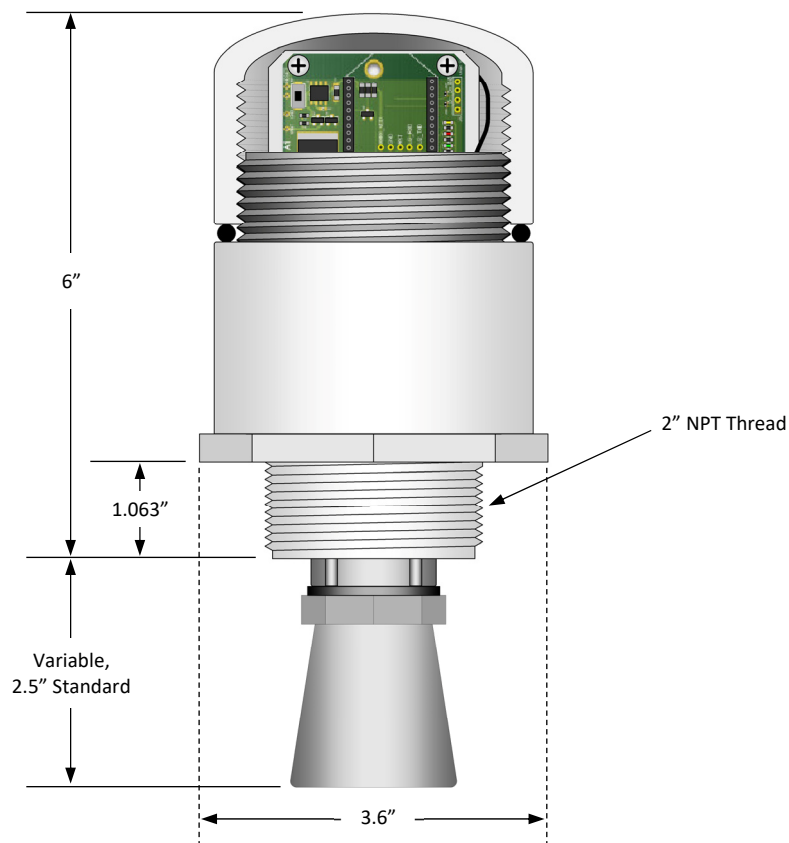
SYSTEM CONFIGURATION

The Cloud

BOA-FEE Back Office Access

TLM04-GW Gateway

BOA-ZB Back Office Access

TLM03-C Sensor

Part No.	Description
TLM03-C	Standard monitor MB7070 sensor with Zigbee radio (requires gateway). Maximum tank height 23 feet.
TLM04-GW	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.
BOA-ZB	Monthly service charge Zigbee data from sensor to cloud.
BOA-FEE	Monthly service charge cellular data from sensor or gateway to cloud.

TLM03 SERIES SENSOR DIMENSIONS

6"

2" NPT Thread

1.063"

Variable, 2.5" Standard

3.6"

SPECIFICATIONS		
General		
Measurement Method	Ultrasonic rangefinder	
Data	Range reading, Battery voltage	
Level Reading		
Range	Minimum Range ~8 inches, Maximum 25 feet (can be extended to ~34feet)	
Resolution	0.39 inches (1cm)	
Accuracy	Typical +/- 1-2" (Range reading is temperature compensated based on temperature probe inside the case)	
Reading interval	Programmable	
Calibration	Estimated gallons from depth in inches	
Electrical		
Power Supply	4 Energizer L91 AA Lithium batteries	
Radio Onboard	**TLM03-E**	**TLM03-C**
	LTE Cat M with support for AT&T, Verizon, Bell, Telus *gateway not required*	ISM 2.4GHz Zigbee Range: up to 300' Urban/indoor, up to 2 miles line of sight *requires gateway to operate*
Battery Life	**TLM03-E**	**TLM03-C**
	Typical 2 years at 2 reports per day (may be affected by temperature, cellular connection/outages and reporting rate)	Typical 2 years at 24 reports per day to nearby gateway.
Environmental		
Operating Temperature	-40°C to 60°C (Limited only by battery specifications)	
Certification	FCC	