



Remote Monitoring Solutions

The TankScan™ system consists of a tank Monitor, a Controller unit and a host software package. This solution allows you to have an accurate reading of tank levels, and saves you money by allowing for efficient and cost effective delivery scheduling.



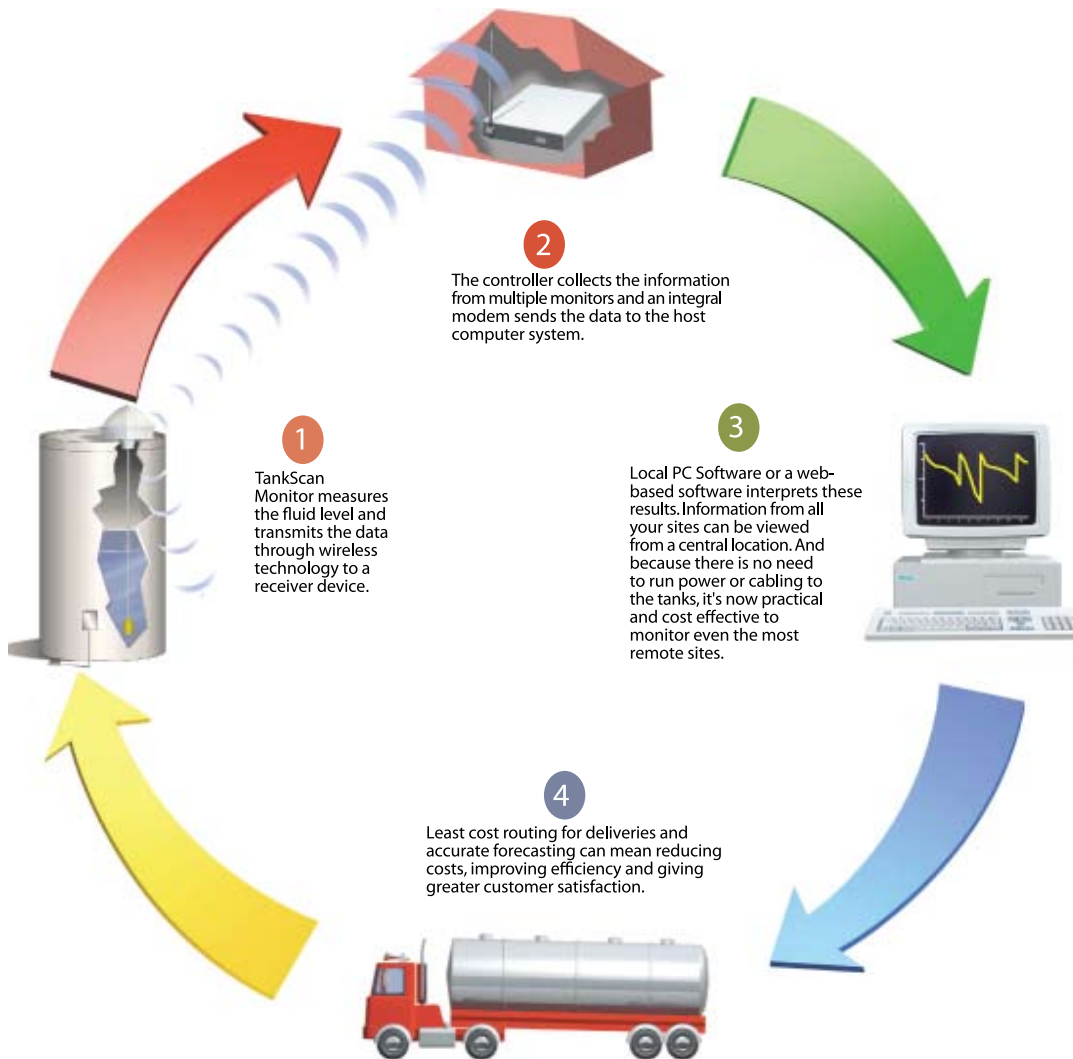
TankScan Level Monitor & Controller

Features & Benefits:

- Intrinsically Safe
- Measures Tank Fluid Levels
- Battery Powered Instruments
- No Moving Parts and No Periodic Re-calibration
- Accurate – improved logistics management/ optimized inventory
- Monitor up to 30 tanks with just one Controller

How it Works

The battery powered TankScan Monitor combines cost effective radar sensor technology with wireless communication. The TankScan Controller communicates with the remote Monitors (via an RF link operating in a license free band) collecting data and status information from the Monitors (up to 30 / Controller). This information is then relayed to the software (Reference Figure B Below).



MIR Technology (Micro-Power Impulse Radar)

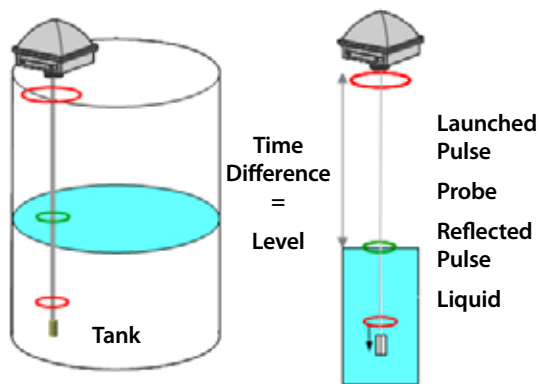


FIGURE A

Complete TankScan System

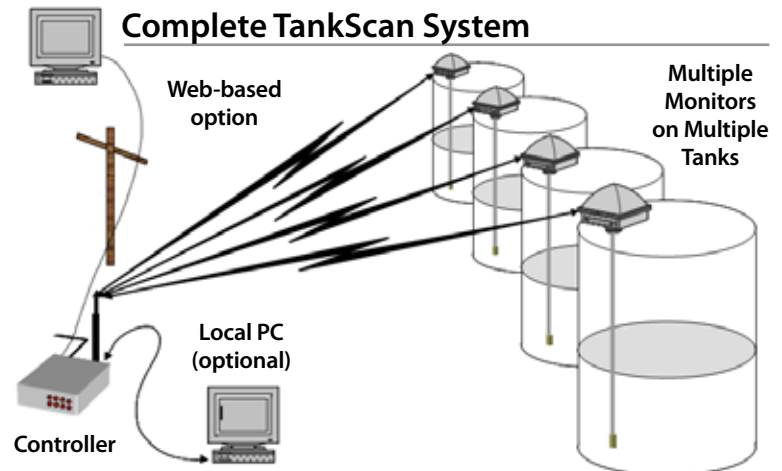


FIGURE B



Level Monitor consists of a hermetically-sealed plastic enclosure that houses the impulse generating sensor and RF telemetry circuitry, a battery compartment, and a flexible wire probe.

The principal behind the Monitor is based on a novel form of radar known as MIR (Micro-Power Impulse Radar) or Ultra Wide Band (UWB) Impulse Radar. In operation, a very short, very low energy electromagnetic impulse is generated from the top mounted sensor down a thin wire (probe) that is immersed in the fluid. The sudden change in the dielectric at the fluid surface causes some of the impulse energy to be reflected back up the probe. The time difference between pulse reflections and the maximum calibrated time delay is proportional to the level of the fluid (Reference Figure A). This information is then relayed to the Controller via the wireless radio (RF) link.

Specifications

- Measurement Method: Micropower Impulse Radar
 - Accuracy: +/- 0.3"(8mm) or 0.5% of probe length (whichever is greater)
 - Length*: 34" (86.4 cm), 42" (106.7cm), 46" (116.8 cm), 62" (157.5 cm) & Customizable from 24" (61 cm) to 240" (609.6 cm)
 - Output: Transmits ID, level data, and internal diagnostics data to Controller at preset intervals
 - Radio Communication: Transmits line of sight up to 500' (152.4 meters) at 916.5 MHz
 - Power Requirements: 6V Battery Pack – (Battery Life 2 years at 4 hour intervals)
 - Construction: Weather proof, non corrosive
 - Operating Temperature: -40° F to 140° F (-40° C to 60° C)
 - Pressure Rating: 15 PSI Max
 - Approvals: Intrinsically Safe
- * Note: Active probe length does not include top 3" or bottom 3" of overall specified probe length. Probe length should be selected so no portion will contact the tank bottom.



Controller is housed in a plastic enclosure that is designed for indoor use. Its primary function is to control systems communications and gather data from up to 30 assigned Monitors.

The Controller stores received data points in a datalog. This datalog is transferred (via built-in modem or direct-to-PC link) to a host computer or system on a preset call-out schedule, an emergency call-out (alarm condition) or in response to a call-in from the host.

Specifications

- Operating Temperature: 32° F to + 140° F (0° C to 60° C)
- Enclosure: NEMA 1/IP30 – Indoor Only
- Power Requirements: 110 VAC (60Hz)
- Radio Communications: Internal Receiver for use with up to 30 Monitors
- Phone Modem: Internal landline modem w/ RJ11 connection

TANKSCAN™ Software Package Local

This software program receives measurement and status data from, and sends configuration updates to the controller. It's an easy to use, windows based package allowing you to configure features such as set points, alarms, and tank size, as well as view and graph data history.



OR

TANKSCAN™ Software Package Global

Allows access to tank level data anywhere there is internet access. View measurement and status data, send configuration updates, configure parameters such as set points and alarms, as well as view and graph data history—all by remote access to the TankScan Controllers.



Accessories



Part Number:
TL102030A
Description:
TankScan Hand Held Terminal



Part Number:
WC202046B1
Description:
20' Remote Antenna - Encapsulated



Part Number:
TL104018A
Description:
Power Cycler Box

For more information call 1-877-847-SCAN (7226) or visit tankscan.com



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TankScan is manufactured and marketed by ATEK Products, an established Minnesota based manufacturer for over 60 years.

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