TankScan TS Series Hardware Installation and User Manual

TankScan TS Series Hardware Installation

Install the TS Series Controller

- Determine the best Controller location
  - Ensure shortest possible distance between all the Monitor locations and the Controller with no obstructions in the path (line of sight).
  - Location should be within a building and near a connection for the mode of communication desired (analog dial up, USB, Ethernet, etc.).
- Mount the Controller at the desired location
  - Attach the antenna to the back of the Controller. (Note: the antenna connection is a left-hand thread)
  - Connect power using the wall plug transformer supplied. The LCD panel on the front of the unit should be on after power is applied.
  - Connect the Controller to the desired mode of communication.

Install the TS Series Monitor(s)

- Determine the desired length of the Monitor probe, cut it to length and attach the supplied weight.
- Mount the Monitor onto the tank by threading it onto the 1-1/2" or 2" threaded hole.
- Remove the battery compartment door using the supplied screwdriver, insert the battery into the compartment and plug it in. The Monitor will take a measurement and send the information to the Controller within about 10 seconds.
  - Swiping the magnet end of the supplied screwdriver over the "Swipe Magnet Here" label on the Monitor will put the Monitor into "Test" mode.
    - In "Test" mode the Monitor will continue to take and send measurements approximately every 30 seconds for ten minutes.
- Determine and add the "Offset". The Offset is a function of how and where the monitor is mounted relative to the full level of the tank
  - Manually measure the level in the tank.
  - Calculate the Offset as: Offset = Manual Reading - Monitor Reading
  - Add the calibration Offset to the monitoring software.
- Repeat for each Monitor being installed.

Refer to the TankScan 2 User Interface Map for viewing data on the LCD panel.

FCC Notes

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

"This device has been designed to operate with the antenna supplied, and having a maximum gain of 3 dB. Antennas not included or having a gain greater than 3 dB are strictly prohibited for use with this device. The required antenna impedance is 50 ohms."

"To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication."

"To comply with FCC and Industry Canada RF radiation exposure limits for general population, the antennas used for these transmitters must be installed to provide a separation distance of at least 20cm from all persons and they must not be collocated or operated in conjunction with any other antennas or transmitters."

"Changes or modifications not expressly approved by ATEK Products, LLC could void the user's authority to operate the equipment."