

TSM1000 Tank Monitor Setup Instructions

TankScan | Powered by AquaPhoenix

Connect Battery and Test Connection

- 1 For tank farm systems with a gateway, set up gateway before connecting battery. Select a spot near tank you are installing. To power up TankScan Monitor unscrew enclosure cover. Connect battery cable to connector on circuit board as shown. Reinstall cover and hand tighten firmly. Monitor will wake up and sound 1 beep. Then a second single beep will follow, with a third single beep for data transmission. 3 single beeps indicates a good connection was made.

If more than 3 single beeps were heard, please contact technical support at 877-847-7226 or CCT@TankScan.com. If 3 single beeps are confirmed, then proceed as follows.

 **Explosion Hazard. Use only provided battery pack.**

Take Measurements

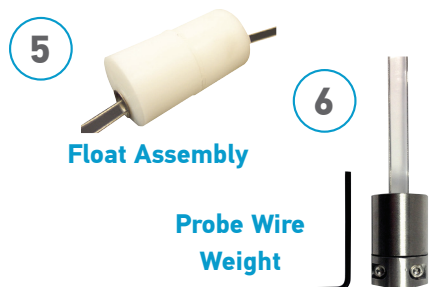
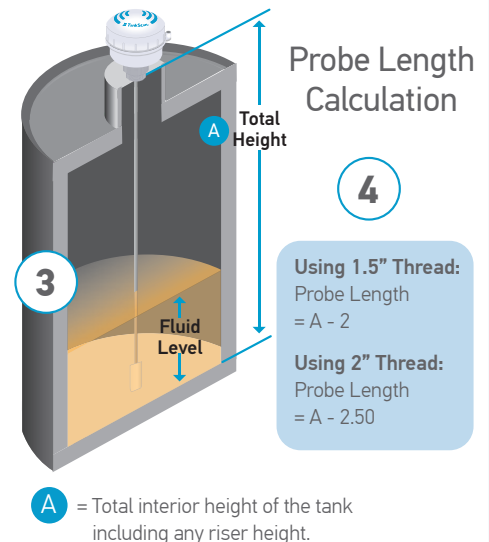
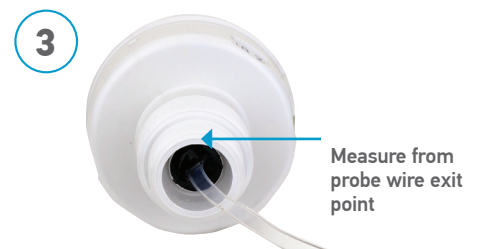
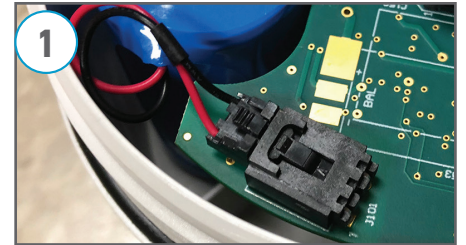
- 2 Remove any equipment from tank port to be used by monitor. TSM monitor can be connected directly to tanks with a 1.5" or 2" NPT threaded opening.
- 3 Measure tank height from inside bottom of tank to top of tank port and to top of fluid level in tank. Record and report these measurements to CCT.
Total Height: _____

Cut Probe Wire to Length

- 4 Determine probe wire length using Probe Length Calculation diagram then measure probe wire length from wire exit point in housing base until calculated length is reached. Make a mark at this point and trim excess wire.

Attach Accessories

- 5 **Float Assembly** - Slide onto probe wire if included with monitor.
- 6 **Probe Wire Weight** - Slide onto probe wire such that wire extends and is flush with end of weight. Tighten weight clamp using provided hex wrench.
- 7 **Remote Cellular Antenna** (if provided) - Connect remote cellular antenna cable to connector on outside of TSM1000 monitor. Position remote antenna away from monitor at a location that is unobstructed from obtaining a cellular signal.



If this equipment is used in a manner not specified, the protection provided by this equipment may be impaired.

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Determine if Probe Wire Guard (PWG) is Needed

- 8** For monitors installed on risers greater than 3 inches long, a PWG is required to prevent probe wire from contacting riser. Refer to included **TankScan Probe Wire Guard Installation Guide** or visit tankscan.com/support.

► **NOTE:** Complete installation from **TankScan Probe Wire Guard Installation Guide**.

If PWG is required but not provided as a field-installable kit, contact TankScan Technical Support to order PWG Field Install Kit before proceeding.

If PWG is not required, then proceed to step 10.

Mount TSM Monitor to Tank

- 9** Lower probe wire with weight **gently** through tank port into tank. Position monitor over tank port and hand tighten until secure.
- 10** Seal pipe threads of monitor using product appropriate for this application prior to tightening into tank port.

Test Setup

- 11** Test monitor by swiping magnet end of supplied screwdriver along cover's rim above triangle indicator on housing base until a beep is heard. Monitor will take a level reading and then report to AquaPhoenix Intelligence Platform (AIP). A second single beep will occur once monitor has finished reporting its level measurement.
- 12** If the monitor has been pre-provisioned, then confirm the reading is correct on AIP or optionally you can call TankScan Technical Support, 877-847-7226, to finish or confirm the reading.

► **NOTE:** Step 13 must be completed for monitor to function properly.

TankScan Technical Support
877-847-7226



Cellular

Contains FCC ID: MCQ-XB3M1

Contains IC: 1846A-XB3M1

Rf

Contains FCC ID: MCQ-XBEE3

Contains IC: MCQ-XBEE3

Operation is subject to the following 2 conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesirable operation.



Watch Install Video

222-0180-000 Rev. F 7/16



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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