

TSM1000 Tank Monitor with Remote Battery 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 the screws on the cover of remote battery pack housing and connect battery connector to remote battery pack housing connector. Reinstall cover and tighten screws. Connect female threaded connector of battery cable to connector on remote battery pack housing. Connect male threaded connector of battery cable to connector on monitor housing.

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 indicate a good connection was made. If more than 3 single beeps were heard, contact TankScan Technical Support. If 3 single beeps are confirmed, then proceed as follows.

Disconnect battery cable from remote battery pack and mount remote battery pack to the tank at a temporary location using magnetic back.



Explosion Hazard. Use only provided battery pack.

Take Tank Measurement

- 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 the total tank height from inside bottom of tank to top of tank port and report this measurement to TankScan Technical Support.

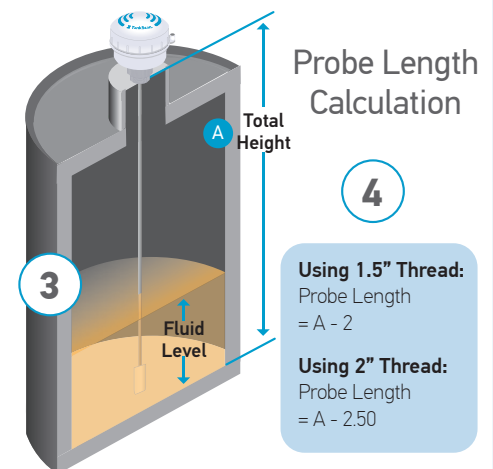
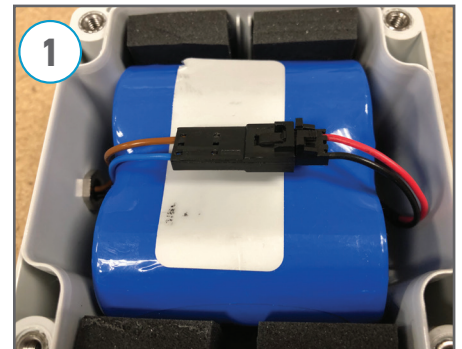
Total Height: _____

Cut Probe Wire to Length

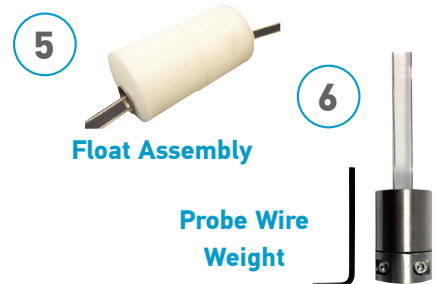
- 4** Determine probe wire length using Probe Length Calculation diagram then measure probe wire length from wire exit point in housing base until calculated length is reached. Make a mark at this point and trim excess wire.

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.



A = Total interior height of the tank including any riser height.



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Determine if Probe Wire Guard (PWG) is Needed

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

NOTE: Return to these setup instructions to complete monitor installation after Probe Wire Guard installation.

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 8.

Mount TSM Monitor to Tank

- 8** Lower probe wire with weight gently through tank port into tank. Position monitor over tank port and hand tighten until secure.
- 9** Seal pipe threads of monitor using product appropriate for this application prior to tightening into tank port. Remote battery pack cable can be removed for ease of installation then plugged in once monitor is fully mounted.
- 10** Connect battery cable to remote battery pack and mount remote battery pack at base of tank such that the battery cable is coming out bottom of remote battery pack housing. If mounting remote battery pack to a plastic tank, apply hook and loop fastener strips to edges of magnet face of remote battery pack.

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 monitor has been pre-provisioned, then confirm reading is correct on AIP or optionally call TankScan Technical Support, to finish or confirm reading.

NOTE: Step 12 must be completed for monitor to function properly.



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.

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