

# TSM1000 Tank Monitor

## Setup Instructions, Hazardous Locations



The power of data. **Optimized.**

**WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT**  
**AVERTISSEMENT: NE PAS OUVRIR EN CAS DE PRESENCE D'ATMOSPHERE EXPLOSIVE**

**WARNING: DO NOT INSTALL BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT**  
**AVERTISSEMENT: NE PAS INSTALLER LES ACCUMULATEURS SI UNE ATMOSPHERE EXPLOSIVE PUEUT ÊTRE PRÉSENTE**

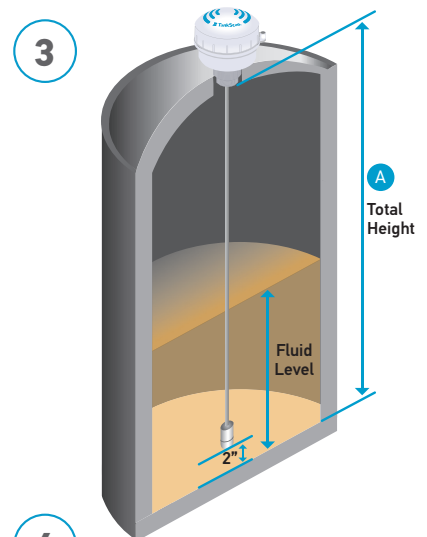
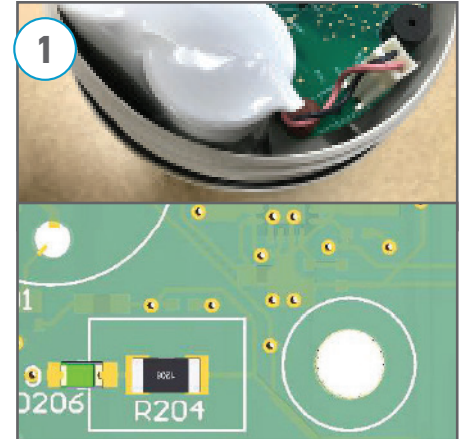
### Connect Battery and Test Connection

**1** For tank farm systems with a gateway, set up gateway before connecting the monitor battery. If possible, select a spot near the tank you are installing. Connect battery cable to connector on the circuit board as shown. The monitor will wake up and indicator D206 will turn on when the monitor begins to take a reading and go off after the data is transmitted. This whole process should take under 3 minutes. If there was an error during this process, D206 will flash for 5 seconds before turning off. If this happens, please contact TankScan Technical Support.

Upon successful transmission of the data, reinstall cover and hand tighten firmly.

**Note:** The cover must remain on when the monitor is moved to a hazardous location.

**WARNING - USE ONLY ATEK BATTERY PACK #TSTRB02000**  
**AVERTISSEMENT - UTILISER UNIQUEMENT DES ACCUMULATEURS ATEK #TSTRB02000**



### Probe Length Calculation

**Tall Tanks (for 144" Monitors and longer)**

Using 1.5" Thread:

Probe Length = A - 2

Using 2" Thread:

Probe Length = A - 2.50



### 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.

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

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### 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.

### Determine if Probe Wire Guard (PWG) is Needed

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

### Test Setup

- 10** Test monitor by swiping magnet end of supplied screwdriver along cover's rim above triangle indicator on housing base. Monitor will take a level reading and then report to ATEK Intelligence Platform (AIP).
- 11** 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 11 must be completed for monitor to function properly.

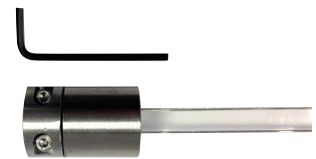
**TankScan Technical Support**  
**877-847-7226**

**5**



**Float Assembly**

**6**



**Probe Wire Weight**

**7**



**10**



#### Cellular

FCC ID: 2ANP000NRF9160

IC: 24529-NRF9160

#### 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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WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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