

# Battery Application Note

## Optimizing Cellular Monitors



The power of data. **Optimized.**

### Exception Reporting and Improving Battery Life

Following is an example on how to setup the monitor for frequent level checks during business hours and not report at times the tank is not being used in order to extend battery life.

This is a common setup for tanks with high usage during the day and low or no usage during the evening and weekend.

### Example

**Report Interval** is set at 12 hours meaning the monitor will report tank level at least 2 times each day.

**Measurement Interval** is set at 60 minutes meaning the monitor will check the tank's level every hour.

**Measurement Threshold** is set at 2 inches meaning that at the expiration of each measurement interval if the level changed by more than 2 inches since the last report then send an extra report immediately.

**Fixed Report #1** is set at 18 hour UTC, meaning every day at 18 UTC the monitor will report. Time conversion from Universal Time Coordinated (+0) to Central Standard Time(-6).

### Update Monitor

Asset:  
Location:  
Last Saved: 12/13/2019 10:09:54 PM UTC

Parameter Name	Value	Units
Report Interval	12	Hours
Fixed Report #1	18	24 Hour UTC
Fixed Report #2	0	24 Hour UTC
Measurement Interval	60	Minutes
Measurement Threshold	2	Inches

# Battery Application Note

## Battery Life Estimator

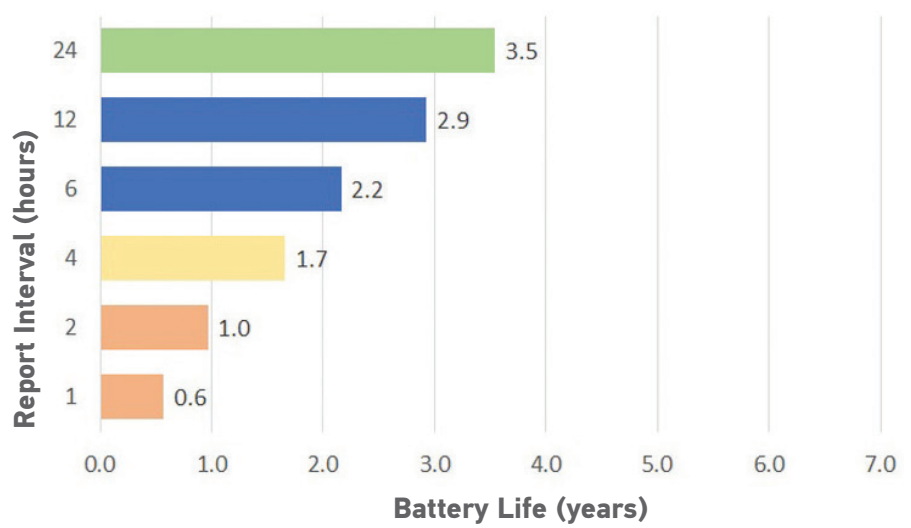


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Battery life estimates vary depending on number of reports sent, ambient temperature (following estimates assume Midwest outdoor installation and seasonal temperature) and cellular or RF link quality. Actual performance will vary.

### TankScan Cellular Monitors

TankScan Cellular Monitors - Battery Life Estimates

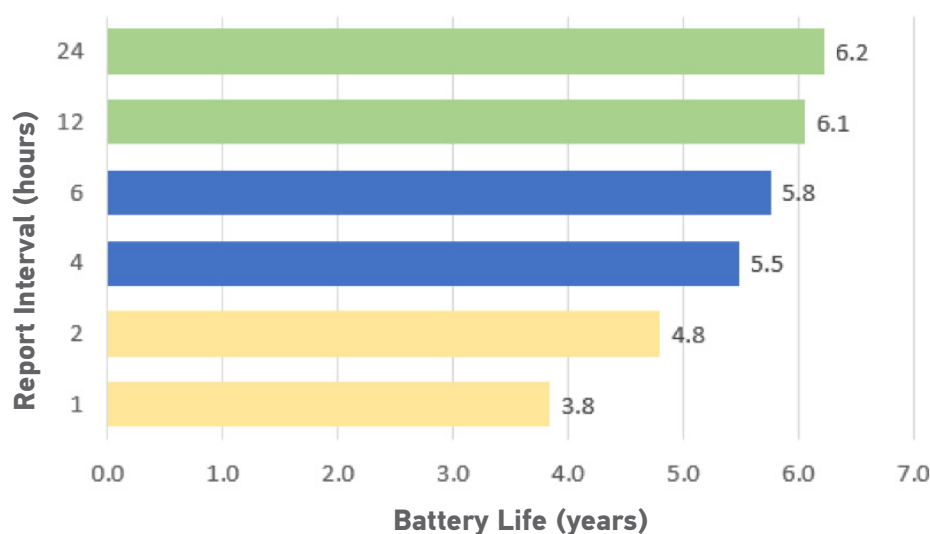


#### Notes:

1. Cellular Monitors connect directly to the cellular network and are commonly used for single remote tanks.
2. Connection to cellular networks uses considerable power
3. Battery life is predominately determined by the report interval

### TankScan Low Power RF Monitors

TankScan RF Monitors - Battery Life Estimates



#### Notes:

1. RF Monitors require a local, powered gateway and are commonly used for multi tank locations
2. Connection to local gateway uses minimal power
3. Battery life is predominately determined by the monitors sleep current

**Do not send used batteries to ATEK. Dispose of them in accordance with local guidelines and regulations.**

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