

## Battery Information

The station uses one rechargeable 4 volt, 10Ah, sealed lead-acid battery. Use the AC adapter (AC-U30), solar panel (SOLAR-xW), or external DC power cable (CABLE-RX-PWR) with your own charging device to keep the battery charged. If using a solar panel, the quality and quantity of solar light can affect whether the battery is sufficiently charged to last through the night and cloudy periods. Without a charging device connected, expected battery life varies based on the ambient temperature where the station is deployed, the logging or sampling interval, frequency of connections to HOBOLink, the number of channels that are active, excitation in analog modules, the number of tripped alarms, and other factors. Deployments in extremely cold or hot temperatures, a logging interval faster than 1 minute, or a sampling interval faster than 15 seconds can impact battery life. Estimates are not guaranteed due to uncertainties in initial battery conditions and operating environment.

Use the following table as a guideline for estimating how long the station will run using a fully charged battery and no source of external power. For these examples, the station has up to 10 smart sensors installed and no excitation enabled for the analog sensor module.

Connection Interval	Logging Interval	Typical Run Time
10 minutes	1 minute	20 days
1 hour	15 minutes	50 days
6+ hour	30 minutes	75 days

All communications will stop if the battery voltage drops below 3.9 V. The station will stop logging if the battery voltage drops below 3.6 V. If the station has stopped logging due to low battery voltage, plug in an AC adapter, solar panel, or external power source to recharge it. It may take several minutes for the station to power back up; the lower the remaining voltage, the

longer it will take for power to return. Also note that it will take longer for power to return with a solar panel than with an AC adapter. If the charging device is not recharging a dead battery, contact Onset Technical Support.

**Important:** Due to the self-discharge characteristics of this type of battery, it is imperative that you charge the battery for at least 12 hours every six months at minimum, even if you are not actively using the station. Otherwise, permanent loss of battery capacity may occur.