

AQMesh battery lifespan estimation

The following estimations are based on the default sampling and transmission settings: 10 second gas sample rate, 15 minute average gas intervals, 30 second PM sampling within every minute, 60 minute transmission interval.

Internal lithium battery



NO, NO2, O3, CO, SO2 NO, NO2, O3, CO, SO2 and all PM PM only 27.3 months 1.1 month 1.2 months

External high capacity lithium battery pack



NO, NO2, O3, CO, SO2 NO, NO2, O3, CO, SO2 and all PM PM only 163.8 months 6.9 months 7 months

Internal rechargeable nickel metal hydride battery



NO, NO2, O3, CO, SO2 NO, NO2, O3, CO, SO2 and all PM PM only

4.1 months 5.2 days 5.3 days

- The wind speed & direction sensor has very low power consumption and makes no difference to these estimations
- The heated inlet for PM monitoring has very high power consumption and will require external mains power
- The solar pack back-up battery (used when there is no sunlight to charge) will last approximately 10 days on standard PM settings and fastest gas settings