1. What are the different states the device can be in?	per sec	sec		min	sec
Polling data	0.1	1		5	300
Computing	0.02				
Transmitting	0.01				

2. How much will your device be in each state?

	seconds	proportion of time in each state
Polling Data	30	0.769230769
Computing	6	0.153846154
Transmitting	3	0.076923077

3. How much current is used in each state?

	current reading	
Polling Data	6	mA
Computing	1	mA
Transmitting	11.3	mA

4. How long will the device last given a 40mAh battery?

battery size	850	mAh

power used in		
Polling data	4.615384615	mA * proportion time spent in mode
Computing	0.153846154	mA * proportion time spent in mode
Transmitting	0.869230769	mA * proportion time spent in mode
TOTAL	5.638461538	mA Total

	150.7503411	hours of use
	6.281264211	days of use