

**Model: SG-Link 1CH-M**  
**Firmware: 4.99**  
**S/N: 2413-235**  
**4/30/2007**  
**8:42 AM**

**Sleep Mode**

sleep interval (s)	1	2	3	4	5	6	7	8	9	10	11	12	13	14
average current (mA)	0.40	0.22	0.19	0.16	0.15	0.12	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09

**Idle Mode**

average current (mA) 27

**Streaming Mode**

# of active channels	1	2	3	4
sample rate (Hz)	736	679	617	565
average current (mA), 1Kohm sensor load	31.39	31.61	31.90	32.16

**DataLogging Mode**

# of active channels	1	1	2	2	3	3	4	4
sample rate (Hz)	32	2048	32	2048	32	2048	32	2048
average current (mA), 1Kohm sensor load	16.53	20.71	16.61	24.37	16.61	27.66	16.71	30.81

**LDC Mode**

sample rate (Hz)	0.1	0.2	0.5	1	2	5	10	25	50	100	250	500
average current (mA), 1Kohm sensor load	0.07	0.08	0.12	0.17	1.17	1.40	1.88	3.28	5.60	11.83	18.60	28.90

**Battery Life Calculations**

Battery Capacity (mAh)	180
Average current (enter a value from above)	0.07
Calculated Indoor Battery Life (hours)	2571
Calculated Indoor Battery Life (days)	107
Calculated Outdoor Battery Life (hours)	1543
Calculated Outdoor Battery Life (days)	64.3

Battery Life Calcs

$$\text{battery\_life} = \text{battery\_capacity} / \text{average\_current}$$
 For example, for a SG-Link using LDC mode at 1 Hz, the battery life is  

$$180 \text{ mAh} / 0.07 \text{ mA} = 2570 \text{ hrs} = 107 \text{ days}$$

Internal Lithium Ion Battery Capacities:

V-Link	600 mAh
SG-Link	180 mAh
G-Link	180 mAh
TC-Link	600 mAh

Optional External Batteries:

Tadiran AA	2400 mAh
Tadiran D	19000 mAh

**Advanced Settings:** Values above can be lowered an additional 0.035 mA by disabling brownout (Set EEPROM 248 = 0). See Node Map Doc.