

Model: V-Link
Firmware: 4.98
S/N: 2513-464
3/30/2007
8:21 AM

Sleep Mode

sleep interval (s)	1	2	3	4	5	6	7	8	9	10	11	12	13	14
average current (mA)	0.81	0.50	0.34	0.27	0.26	0.24	0.23	0.22	0.21	0.22	0.21	0.21	0.21	0.20

Idle Mode

average current (mA) 29

Streaming Mode

# of active channels	1	2	3	4	5	6	7	8
sample rate (Hz)	736	679	617	565	520	485	452	424
average current (mA), 4 x 1Kohm load	30.10	30.06	30.06	30.09	30.11	28.95	30.11	29.92

DataLogging Mode

# of active channels	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
sample rate (Hz)	32	2048	32	2048	32	2048	32	2048	32	2048	32	2048	32	2048	32	2048
average current (mA), 4 x 1Kohm load	14.55	17.98	14.61	20.24	14.65	22.54	14.70	24.83	14.70	27.47	14.80	30.17	14.86	31.61	14.86	32.34

LDC Mode

sample rate (Hz)	0.1	0.2	0.5	1	2	5	10	25	50	100	250	500
average current (mA), 4 x 1Kohm load	0.19	0.21	0.26	0.34	1.39	1.67	2.28	4.01	6.85	7.24	13.96	24.57

Battery Life Calculations

Battery Capacity (mAh)	600
Average current (enter a value from above)	0.19
Calculated Indoor Battery Life (hours)	3158
Calculated Outdoor Battery Life (hours)	1895

Battery Life Calcs

$battery_life = battery_capacity / average_current$
 For example, for a V-Link using LDC mode at 1 Hz, and with 4 strain channels at 1K ohm each, the battery life is:
 $600\text{ mAh} / 0.34\text{ mA} = 1764\text{ hrs} = 73\text{ days}$

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.