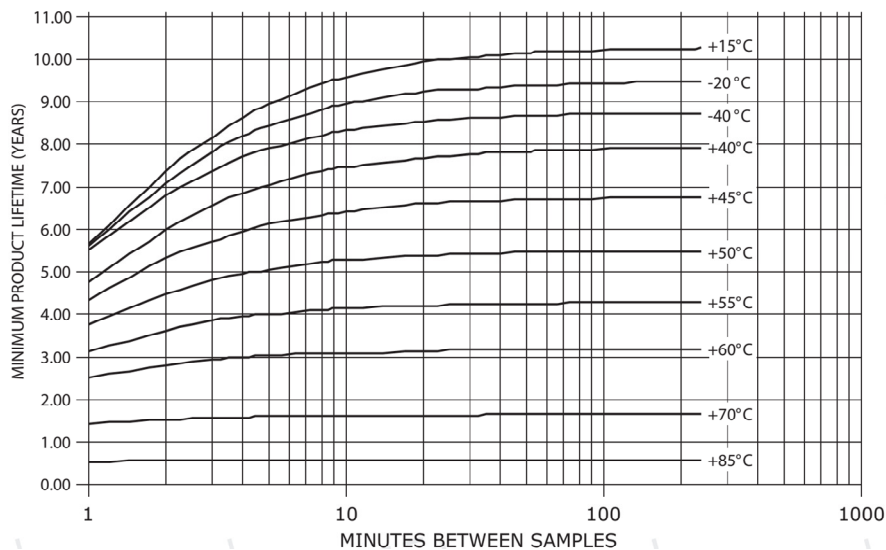


What is the life span of DISKLOG (iButton) data logger?



MINIMUM PRODUCT LIFETIME vs SAMPLE RATE AT DIFFERENT TEMPERATURES



Battery: 3.0V Lithium – Approximate 5 years battery life using 20 min sample rate at 15°C. The lifespan is dependent upon usage conditions, specifically, how often the device samples, what environmental conditions (temperature) to which the iButton is exposed, etc. See the lifetime/lifespan graphs located above for lifetime expectancies based on usage conditions.

Batteries lose energy over time through self-discharge (aging) and through normal use when the equipment is switched on. Both the rate of battery self-discharge and the energy consumption of a silicon chip strongly depend on the temperature. The higher the temperature, the higher the energy consumption.

In order to preserve battery life between uses, it is recommended to disable the clock. From the software, select the device. On the left, click on the option tab and from the pop-up window, depress 'Halt Real-Time Clock' button under the "Miscellaneous".

Operating any logger above or below its thermal operating range can damage its internal battery or components. Storage or operation above 50°C significantly reduces battery life.

Conclusion:

- 5 years battery life using 20 min sample rate at 15°C
- > 1-year battery life using 20 min sample rate at 80 ~ 85°C