



DATALOGGERS

DATAHOG2 - POWER CONSUMPTION

A DataHog2 datalogger will use different amounts of power in different operating modes:

FUNCTION	RS232 PLUG CONNECTED*	POWER CONSUMPTION
Logging mode	No	2-4 mA
Logging mode	Yes	3-5 mA
Communication mode **	Yes	15 mA

* The logger beep will sound when a RS232 plug is connected, hence slightly higher power consumption

** When the logger is in Main Menu mode, e.g. downloading data, live display mode etc

Skye DataHog loggers are fitted with Duracell alkaline batteries as standard. These will have a lifetime of 4-6 months depending on operating temperature, frequency of logging and data download. These batteries are an operational power source only, all data and logger configuration is stored by a lithium battery backed RAM chip, unaffected by the state of the operational power supply.

The DataHog2 logger will automatically switch itself off if its power supply drops to around 6.5 volts. It will not continue logging below this value, as the logger needs to provide 5V excitation power to sensors. Some sensors may read incorrectly if their power supply gets too low. It is advisable to replace the internal batteries with fresh alkaline cells as soon as they read 7V to ensure uninterrupted operation.

Additional power supplies can be used with the DataHog2 logger, e.g. a Solar Hog, Mains Hog or 12V vehicle battery. External power is supplied through the logger's RS232 socket. The logger automatically uses the highest of the two power supplies it detects (internal batteries or external supply). It will switch from external power back to internal batteries if the external supply fails (and will switch back again when the external supply is resumed). It will continue operation until the 6.5V threshold is detected, as described above.

Once the DataHog2 has detected low power and switched itself off, it cannot be powered up again until the supply voltage has been increased (e.g. new batteries) AND the PSU Reset button has physically been pressed. (It is possible to press the PSU Reset button remotely via a Mains Hog).

SKYE INSTRUMENTS LTD

21, Ddole Enterprise Park, Llandrindod Wells, Powys, LD1 6DF, UK

Tel: +44(0)1597 824811 Fax: +44(0)1597 824812

Email: skyeemail@skyeinstruments.com Web: www.skyeinstruments.com

