

# DATALOGGERS

## Solar Power for DataHogs

The DataHog2 / MiniMet2 dataloggers are designed to have a very low power consumption, ideal for use in remote locations.

- E.g. DataHog in 'silent' logging mode : 0.2 0.4 mA  
DataHog in 'beeping' logging mode (when datalead is connected to RS232 socket) : 0.3 0.5 mA  
DataHog in non logging Main Menu mode : 15 mA

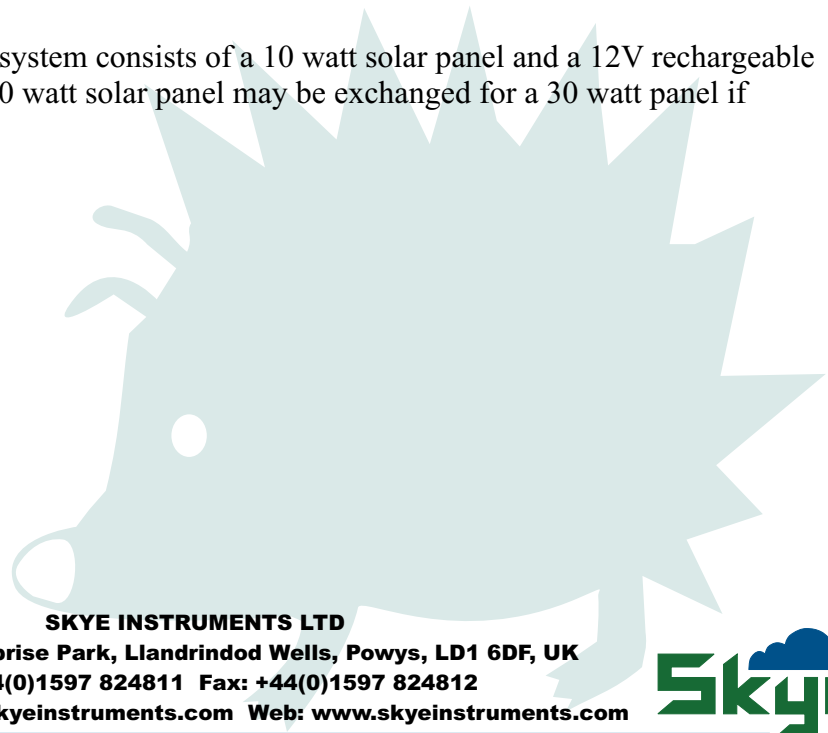
NOTE these values will be increased if high power sensors are connected to the logger, e.g. pressure sensors, tensiometers, water level sensors etc.

The DataHog2 has 6 x C cell alkaline internal batteries which will power the logging functions for 4-6 months (dependant on temperature). A 10 year Lithium battery powers the loggers data memory and configuration, even if the alkaline batteries are exhausted.

The ACC/5 Solar Hog power system consists of a 1 watt solar panel and a series of in-circuit rechargeable batteries. Its output when fully charged is typically 1 Ah at 12 volts. The solar panel will recharge its own internal batteries at solar radiation levels above 80 watts/m<sup>2</sup>. Even if in total darkness, a fully charged Solar Hog will power a DataHog logger for about 7 weeks.

If the DataHog is to be connected to several very high power sensors (e.g. snow depth, Theta soil moisture probes, etc), or will be used in locations where daylight hours are less than 8 hours per day during winter times (e.g. northern Europe), or in locations where solar radiation levels are rarely above 80 watts/m<sup>2</sup>, then we advise the use of a larger solar panel and storage battery, such as the ACC/5-10W Solar Power system.

The ACC/5-10W Solar Power system consists of a 10 watt solar panel and a 12V rechargeable vehicle battery. In extreme cases the 10 watt solar panel may be exchanged for a 30 watt panel if required.



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