



# DATALOGGERS

## DataHog2 Communications Protocol

The Skye DataHog2 datalogger is designed to be very easy to use and communicate with. It is not reliant on Skye's own software although this is available if preferred.

The DataHog2 communicates in ASCII characters at 9600 baud rate. It can be used with Windows HyperTerminal or other similar communications programs, please use the settings: no parity, 8 data bits, 1 stop bits, Xon/Xoff flow control.

When in 'log mode' and a RS232 datalead is connected, the logger automatically transmits a space delimited ASCII string, with time and date, every 10 seconds. E.g.

**\*<ANY NUMERIC KEY TO WAKE-UP (!0 TO 9!)>\***  
**13:07:00 11/07/2001**

At each logging interval (which can be chosen from every 10 seconds to every 12 hours), data from each sensor channel is also transmitted. E.g.

**\*<ANY NUMERIC KEY TO WAKE-UP (!0 TO 9!)>\***  
**13:30:00 11/07/2001 0 0000061.39383 1 0000017.19200 2 0000664.43872 3 0000006.79232 4**  
**0000205.00000 5 0000000.00000**

i.e. time, date, channel number, data, channel number, data etc. In this example, channel number 0 is RH, channel number 1 is air temperature, channel number 2 is solar radiation etc.

If the logging interval is set to 10 seconds, then a similar ASCII string will be transmitted every 10 seconds. If the logger is set to 'memory overwrite when full' then no other actions are needed. This is often the simplest scenario for use with a user's own proprietary software. No characters need to be sent to the logger, the software only has to receive this string, interpret and store it as necessary.

Other functions such as data download, memory clear etc require the logger to receive a numeric character to 'wake up' into Menu Mode, and then navigation through the menus. Please see the DataHog menu for details.

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