



DATALOGGERS

DataHog2 - check logger internal batteries when using a mains hog or solar hog

When the DataHog logger is used with an external power supply, such as a Mains Hog, Mains Hog with Signal Boosters or Solar Hog, the logger's internal batteries are not used except as a back up in case of power failure.

It is good practice to check the health of the internal batteries at least annually, so that they can continue to act as a back up in case of emergencies. Also exhausted cells which are left in place may leak and cause damage to the logger's electronics.

1. Start your logger software as usual and connect to the logger. When the "ANY NUMERIC KEY TO WAKE UP" message is present, then the logger is connected correctly and available for communication.
(In SkyeLynx Deluxe, click on the Window menu and choose Logger to view the blue terminal window which will show the above message.)

2. 'Wake-up' the DataHog into Main Menu mode you will see the following menu:

SKYE INSTRUMENTS LTD. MINIMET2 SERIES.

**SEND CHARACTER SHOWN TO SELECT ITEM
<ESC> RETURNS TO LOGGING**

- MAIN MENU -

- 0) DISPLAY READINGS FROM ALL ACTIVE CHANNELS**
- 1) DISPLAY CURRENT SETUP**
- 2) DISPLAY SOFTWARE VERSION**
- 3) OFFLOAD 24HOUR DATA SUMMARY**
- 4) OFFLOAD DATA**
- 5) RESET MEMORY**
- 6) SET CLOCK**
- 7) SET DATAFILE I/D, PLUS MEM OVERWRITE & TIMED LOGGING MODES**
- 8) SET CHANNEL SAMPLE & LOG INTERVALS**
- 9) SET AX+B CALIBRATION FACTORS**
 - A) SET CHANNEL CONFIGUR'NS**
 - B) SET INT'NL RH% SENSOR CALIB'N**
 - C) SET ALARM RELAY(S)**
 - D) SET CHANNELS FOR NONZERO/THRESHOLD LOG MODES**
 - E) ENTER 'LOG ON DEMAND' MODE**

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3. Type '1' to choose the menu Option 1 - Display Current Setup. The following sub-menu will be then displayed:

SELECT ITEM REQUIRED

0 CHANNEL CONFIG'N AND SCALING

1 SAMPLE AND LOG INTERVALS

2 LOG MODE AND THRESHOLDS

3 AX+B SCALING FACTORS

4 ALARM RELAY SETUP

5 TIME, BATTERY, MEMORY & TIMED LOG STATUS

6 RETURN TO MAIN MENU

4. Type '5' to choose the sub-menu Option 5 - Time, Battery, Memory & Timed Log Status. The screen will show a status screen similar to the example below:

CURRENT DATE AND TIME ARE:-

hh:mm:ss DD.MM.YY
12:31:12 12.02.02

BATTERY VOLTAGE IS 12.92

TOTAL FREE DATA MEMORY 118696 BYTES
FULL MEMORY CAPACITY - 121020 BYTES

LOGGING START/STOP TIME MODE DISABLE e.g. NORMAL LOGGING

START TIME - 00:00:00 01.01.95

STOP TIME - 00:00:00 01.01.95

DATAHOG WILL OVERWRITE WHEN MEMORY IS FULL

5. From the above example the logger's is receiving 12.92 volts from its power supply.
- A) If this value is between 9.5-13V then the external power supply is working as normal.
 - B) If this value is 9.5V or below, then the logger is being powered by its internal batteries, and NOT the external power supply (Mains Hog or Solar Hog). If the external power supply is connected and switched on but not showing a voltage above 9.5V then there may be problem with the power supply unit itself or its cable.
 - C) NOTE when running on internal batteries, datalogging will discontinue if the battery voltage drops to around 6.5 volts, so if the voltage shows around 7 volts it is advisable to replace the internal batteries with fresh alkaline cells.
6. If the power supply voltage is showing between 9.5V and 13V as expected, continue to test the internal batteries. Press space bar to return the to the sub-menu and 6 to return to the Main Menu. (NOTE you need to come out of the battery voltage display and return again to read the new power supply voltage).
- (Continued)

DataHog2 - check logger internal batteries when using a mains hog or solar hog (continued 2)

A) if using a Mains Hog, simply switch off the mains power the red light will go out. Now repeat steps 3 to 5 above to check the logger's internal battery voltage. If there is no response from the logger and you cannot view any menus, then the logger's internal batteries are completely dead and require changing.

Don't forget to press the PSU Reset button on the Mains Hog after changing the batteries.

When finished, check the internal batteries again as above, then switch the Mains Hog power back on.

B) if using a Solar Hog, disconnect the PC datalead from the Solar Hog's RS232 socket and connect direct to the logger's RS232 socket instead. Now repeat steps 3 to 5 above to check the logger's internal battery voltage. If there is no response from the logger and you cannot view any menus, then the logger's internal batteries are completely dead and require changing.

Don't forget to press the PSU Reset button inside the battery compartment after changing the batteries.

When finished, check the internal batteries again as above, then reconnect the Solar Hog to the logger's RS232 socket as normal.

7. **IMPORTANT** - after noting the logger's battery voltage, it is important to return the logger to log mode, else no further data will be stored.

- A) Press the space bar to return to the sub-menu.
- B) Type '6' to Return to Main Menu.
- C) Press ESCAPE to Return to Log Mode.

Make sure you see regular ANY NUMERIC KEY TO WAKE UP message before exiting the software and disconnecting the logger.