



# MINIMET

## Power Supply Options for MiniMets

### 1) BATTERY POWER (Standard Option)

Skye DataHog and MiniMet 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.

### 2) SOLAR POWER (Optional)

The ACC/5 Solar Hog solar power supply is designed for use with a DataHog or MiniMet logger. It consists of a small solar panel, trickle rechargeable batteries, waterproof enclosure and pole mount and fixings. (The pole mount can be bolted to a wall or vertical surface if preferred.) The Solar Hog powers the logger through the RS232 socket and so has its own RS232 socket for downloading data without interruption of the power supply. This option is ideal for remote installations visited occasionally for download with a laptop PC.

**\*\* The Solar Hog cannot be used simultaneously with any of the Mains Hog options \*\***

### 3) MAINS POWER (Optional)

#### a) Maximum 50m distance between mains supply and logger

The ACC/9 Mains Hog consists of a voltage transformer which runs off mains power (please specify 110V or 220V) and provides a 12V supply to the logger. The Mains Hog itself is installed indoors (for safety reasons) and only the 12V power cable runs outdoors to the logger. This cable has 2 purposes, to take the 12V power to the logger, and also to act as a data transfer cable. The 12V cable plugs into the logger's RS232 socket (the logger's internal alkaline batteries remain installed to provide backup in case of power failure). The indoor Mains Hog also has a RS232 socket which connects to the PC, (using the standard data cable supplied with the logger) for data transfer. This means that the logger can be easily accessed from the PC at any time.

#### b) Maximum 1km distance between mains supply and logger

The ACC/9B Mains Hog with Signal Boosters is similar to the standard Mains Hog but also has provisions for overcoming low data signals and voltage drop over long cable lengths. In this case the Mains Hog has rechargeable batteries fitted to provide back up in case of power failure, and the logger's internal alkaline batteries are removed. The Mains Hog is again installed indoors next to a PC plus a second unit is located out at the logger installation (which plugs into the logger's RS232 socket) to provide a boost to the return data signals. The dual purpose power / data cable runs between the two as before.

**\*\* Please remember that long cables act like an aerial for picking up electrical noise. Ensure that the cable length does not run alongside other electrical installations, such as large switching machinery etc. to eliminate data transfer problems \*\***

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