



DATALOGGERS

DataHog2 Overview

The following is a summary of the DataHog 2 input channels. There are 5 types of inputs to choose from:

1. voltage - single ended or differential, ± 2.0 mV to ± 2 V
2. current, 0-200 nA to 0-400 A (suitable for the Skye light and radiation sensors)
3. digital count - for switch closure or 5V pulse
4. temperature - 10 k ohm thermistor type, range -20°C to $+100^{\circ}\text{C}$
5. potentiometer - suitable for the W200P Vector windvane

The combinations of these channels can be chosen by the user at the time of ordering. Each channel type is built in hardware and cannot be changed later. It is possible to have 25 'software' channels to log from, but a maximum of 16 hardware sockets on the DataHog box. (A socket can be a 2 channel input for example).

The light grey ABS plastic logger housing can have a maximum of 9 sensor sockets. Integral sensors for RH and temperature can also be fitted. So the maximum number of channels for this housing is 11 sensors (2 integral plus 9 in sockets).

The dark grey steel metal logger housing can have a maximum of 16 sensor sockets. It is not possible to fit integral RH/temperature sensors to this housing. An external probe such as the SKH 2060/I or SKH 2070/I must be used (this connects to just one 2-channel socket and uses 2 voltage inputs).

Choose a combination of hardware channels - the maximum for each type of channel in one DataHog is 16 single ended voltage (these can be configured as differential voltage (max 8), temperature (max 10) or potentiometer (max 1), and / or 16 current, and / or 6 digital type channels. There is no difference in the cost of the different types of channels.

The DataHog 2 supplies a regulated 5V supply to voltage input channels only. There is a special power supply of 1.3 V nominal (each one individually calibrated) to windvane potentiometer channels. Current and digital channels do not have a power supply. Temperature channels are designed especially for the 10k ohm curve matched thermistor.

Sensor outputs of greater than 2V will damage the datalogger.

The DataHog 2 has its own waterproof housing and is rated IP65. Connections to sensors are made using IP65 waterproof connectors - single channel sensors have 5 pin plugs to mate with the sockets in the DataHog 2 box. Please note that the DataHog 2 box is not completely waterproof unless all sockets have a sensor plugged in, or have a blank dustcap on unused channels.

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