



DATALOGGERS

DataHog2 & External RH/Temperature sensors

The Skye SKH 2000 series RH/temperature probes require a power supply between 5-15 VDC applied for a minimum of 0.8 seconds before the measurement is taken. (It is the RH element which requires this length of time, the temperature element is less demanding).

The Skye DataHog2 logger provides a 5 VDC supply, switched on at approximately 0.6 seconds before the first active voltage channel is measured. This power supply remains on until all channels have been measured, so the second, third, fourth etc. channels will effectively get a longer 'warm up' excitation time.

To ensure the RH sensor receives its required 'warm up' excitation time, the logger should be configured so that at least 3 active voltage (not digital) channels are being measured before it, i.e. choose software channel 03 or greater for the RH sensor. The temperature sensor in the SKH 2000 probe can be set up to precede the RH sensor, e.g. at software channel 02.

If necessary, unused 'dummy' channels must be set up, it is recommended to use the same hardware channel as the RH probe:

E.g. Channel 00 Voltage 1 ('dummy' RH)
 Channel 01 Voltage 2 ('dummy' RH)
 Channel 02 Voltage 3 (temperature from SKH 2000 probe)
 Channel 03 Voltage 4 (RH from SKH 2000 probe)

NOTE: channels 00, 01 and 02 must not be switched off, otherwise the 'warm up' excitation will be reduced for channel 03 as if no dummy channels are present.

To avoid null readings if 'dummy' channels are used, use the Log Above Threshold feature (Option D from the Main menu). If software channels 00 and 01 are set up as dummy RH channels and a threshold of 200 % RH is used, then the logger will never record such values. Use Option D and sub menu 02, and enter the threshold as +19000 (19000 is the raw data count equivalent of 200% RH).

The logger will now power up and read from these channels, but will not store a reading in memory unless the RH is above 200% (which should never happen!).

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