



# SDL 2556 - WindHog Wind Monitoring System

The Skye WindHog system is dedicated to the measurement and monitoring of Wind Speed and Wind Direction, and uses the Skye DataHog2 datalogger. Control Relays can also be added for activating alarms, vents, windows etc. according to the prevailing wind conditions.

DataHog2 loggers have up to a total of 16 sensor inputs, but the WindHog datalogger is fitted with 1 or 2 channels for wind sensors as required. For full meteorological stations, please choose the MiniMet Automatic Weather Station.

The low cost DataHog2 WindHog includes a traditional pulse Anemometer and Potentiometer Windvane, and records averages of Wind Speed and Direction. All DataHog2 loggers can calculate the Wind Direction as a modal average (or predominant Wind Direction).

WindHogs are battery powered as standard, but are also available with mains or solar power supplies.

Data is transferred to a PC for analysis either by direct cable link, or GPRS modem link (see separate datasheet).

Skye Lynx Comms software is supplied with each WindHog/DataHog system for offloading the data and configuring the logger.



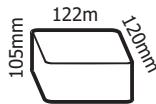
## SDL 2556 SPECIFICATIONS

**Operating Temperature:** -20 to +70°C standard range

**Housing:** Grey ABS sealed to IP65

**Mounting:** Can be positioned in any position

**Weight Dimensions:** 1100g



**Connections:** Binder sub-miniature type 8 & 5 pin, sealed to IP65 when mated with plug or blanking cap

**Power:** Standard 6x C batteries (3-5 months) or optional MainsHog mains power or SolarHog solar power

**Resolution:** 15 bits resolution

**Memory:** Battery Backed RAM, 1 MBIT. E.g. 2 channels 8068 recordings of each channel plus time and date

**Inputs:** Wind Direction, Wind Speed

**Outputs:** 2 independant electrical relay switches, open/close contact on user set conditions

**Modes:** Each channel configured individually. Logging Intervals, 10, 20, 30 secs, 1, 2, 5, 10, 20, 30 mins, 1, 2, 3, 4, 6, 12, 24 hours. Integration intervals as above. Transmit data at above Intervals to RS232 whilst logging. Transmit data on demand from signal via RS232. Stop/Start logging time

**Units:** User definable scaling and units

**Clock:** Real time year, month, date, time clock enabling synchronisation of several units. Clock backed by lithium battery

**Communications:** RS232 with ASCII format

## ORDERING INFORMATION

### SDL 2556

WindHog System - includes DataHog2 datalogger and pole mount. Anemometer, Windvane and dual pole mount

### Mast Options

ACC/11C - 2m portable mast

ACC/11F - 3m wall mast

ACC/11E - 2m roof mast

### Power Options

ACC/9 - MainsHog mains powered system. Supplied with 3m\* cable to DataHog & 1m to mains supply. Suitable for up to 50m cable lengths

ACC/9B - MainsHog mains powered system with Signal Boosters. Supplied with 3m\* cable to DataHog & 1m to mains supply. Suitable for cable lengths 50m to 1km

*\*please request additional cable*

ACC/5 - SolarHog, 1 watt solar panel power (see picture)

## WIND SPEED & DIRECTION SPECIFICATIONS

### Wind Speed

**Performance Threshold:** 0.2m/s. Max speed over 75m/s (146Kts)

**Performance Accuracy:** 1% of reading between 10 and 55m/s, 2% above 55m/s

**Calibration:** 0.80 revolutions per meter (1 pulse per 1¼ meters)

**Temperature Range:** -40 to +70°C (de-icing heater to order)

### Wind Direction

**Performance Threshold:** 0.6 m/s (1.2 Kt, 1.4 mph.) - the fin will commence movement when aligned at 45° to the flow. Max speed over 75m/s

**Performance Accuracy:** ±2 obtainable in steady winds over 5m/s

**Range:** 360° mechanical angle, full circle continuous rotation allowed

**Temperature range:** -50 to +70C (de-icing heater to order)

**Skye Instruments Ltd**

21, Ddole Enterprise Park, Llandrindod Wells, Powys LD1 6DF, United Kingdom

TEL: +44 (0)1597 824811 EMAIL: skyemail@skyeinstruments.com WEB: www.skyeinstruments.com

Issue 2.0