

**SKYE INSTRUMENT LIMITED
LLANDRINDOD WELLS, UK**

**MINIMET WEATHER STATION
RECOMMENDED SPARES FOR 5 YEARS**

1. DATAHOG2 / MINIMET2 DATALOGGER

The logger contains a set of 6 internal alkaline batteries type C (e.g. Duracell). If external power (solar or mains) is used then these back up batteries should be changed annually. These batteries are usually easily obtained locally – it is important to use only good quality types.

Recalibration / checking of the logger electronics is recommended annually.

RECOMMENDED SPARES – 6 type C alkaline batteries per year

2. RELATIVE HUMIDITY SENSOR rht+

Recalibration is recommended at least annually.

Skye Instruments RH recalibration kits provide equipment and materials for the user to make their own recalibrations using saturated salt and drying agent environments. The user also requires a temperature stable facility, e.g. a water bath or environmental cabinet, and a PC.

RECOMMENDED SPARES – 1 full RH recalibration kit (SKH 1092) and 1 PC interface (CalComm) for Year 1, plus 4 RH Refill kits (SKH 1092/R), one for each subsequent year.

3. AIR TEMPERATURE

Recalibration is recommended annually by a Calibration House, which involves measurements against a reference temperature probe in a temperature controlled environment.

RECOMMENDED SPARES – none required

4. WIND SPEED

A physical check of the bearings, spindle and rotor cups is recommended at least annually. The bearings should run freely and a bearing change recommended at a minimum of every 5 years. The spindle should be replaced if it becomes bent or damaged. The rotor cups are the calibrated part of the instrument and any damage requires a replacement rotor.

RECOMMENDED SPARES – 1 spares kit (KSAR-1) includes bearings, seal, spindle, protection tube and rotor cups.

5. WIND DIRECTION

A physical check of the bearings, spindle and vane is recommended at least annually. The bearings should run freely and a bearing change recommended at a minimum of every 5 years. The spindle should be replaced if it becomes bent or damaged. The vane is the calibrated part of the instrument and any damage requires a replacement rotor.

RECOMMENDED SPARES – 1 set of bearings (263-02), 1 spares kit (KSWP-1) includes potentiometer / spindle assembly, protection tube and vane.

6. BAROMETER

Recalibration is recommended annually by a Calibration House, which involves measurements against a reference pressure sensor.

RECOMMENDED SPARES – none required

7. PYRANOMETER

Recalibration is recommended every 2 years by Skye Instruments or a national Meteorological Office. This involves measurements against a reference solar radiation sensor under clear sky conditions.

RECOMMENDED SPARES – none required

8. SOIL TEMPERATURE

Recalibration is recommended annually by a Calibration House, which involves measurements against a reference temperature probe in a temperature controlled environment.

RECOMMENDED SPARES – none required

9. RAINGAUGE

Recalibration is recommended annually which can be done easily by the user by pouring a known amount of water slowly through the gauge. Full instructions are given in the instruction manual.

The filter, filter cap and plastic screws are recommended to be changed at least annually, after a through clean.

RECOMMENDED SPARES – 5 spares kits (ARG 100S) containing filter, filter cap and plastic screws. (1 for each year).