



WATER & AIR

Humidity / Temperature probe 4-20mA output



Robust and durable



Highest Specification sensors



Ideal for meteorological
applications



Suitable for long cable lengths



Skye have been manufacturing high quality, robust and reliable relative humidity and temperature probes since 1985. These meteorological specification sensors are ideal for all outdoor, glasshouse and high humidity applications.

This datasheet describes the range of probes with 4-20mA current outputs, suitable for industrial looppowered systems and installations requiring long cable lengths.

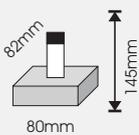
There is a choice of RH only, temperature only or a joint RH and temperature probe.

These probes are fully recalibratable - they are not throw away as with some models. Calibration is recommended at least annually and can be done by the user with the SKH 1093 recalibration kit, or can be returned to Skye or your local Calibration Laboratory for service.

These probes can be used with the new design radiation screen for accurate measurement of shade temperature outdoors, or as a bare probe in indoor, shaded installations.

In dusty or marine environments the addition of the ACC/17 replaceable breathable covers are advised to protect the RH element.

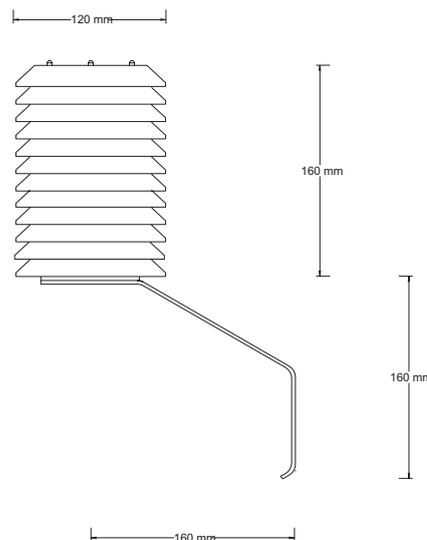
SPECIFICATIONS

Dimensions	Weight	Construction	Cable	Sensor	Operating/ measuring range	Output signals Humidity	Temperature
	300g With cable	Sensor - PTFE Grade A with 32micron stainless steel gauze. Electronics - grey ABS sealed to Ip65	3m screened cable	RH Capacitive Temperature PT100	0-100% RH -20 to +70°C (units for extended temperature range available)	4-20mA	4-20mA
Response time	Accuracy at 23°C Humidity		Recalibration	Excitation	Power supply	Consumption	
Typically 10secs between 10 and 75% for 90% of the step	Better than 2%		PT100 (1/3rd DIN) Max Error at 0°C = ±0.05°C	Fully recalibrateable 2 point trim Recalibration kit available	Allow 850ms from application of power before taking measurement	12-36VDC	Output Dependant 4-20mA

SPECIFICATION DIAGRAMS

NOTE: if the SKH 2000 series relative humidity and air temperature sensor is to be used outdoors or in direct sunshine, then a radiation screen should be fitted. A radiation screen ensures that shade temperature, not direct sunlight temperature, is measured. It also offers physical protection to the probe when outdoors.

Example: SKRS 080H
Radiation screen with
Long arm bracket and
U bolt fixings for mounting
on a mast of maximum
diameter 38mm.
Can also be fixed to a wall
Or vertical surface



MATERIAL
SCREEN DISHES
High quality,
UV resistant
ASA polymer

POLE MOUNT
White painted
aluminium

WEIGHT
1kg

Sensors

SKH 2050	4 - 20mA current o/p humidity probe
SKH 2052	4 - 20mA current o/p temperature probe
SKH 2053	4 - 20mA current o/p humidity & temp probe

Accessories

SKH 1093	Recalibration kit for SKH 2000 probes
SKRS 080H	Radiation screen, bracket and fixings
ACC/17	Breathable covers

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