



SKH 2000 Series RHT+ Probe

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.

The RHT+ range uses the same well proven, high specification sensor elements and are fully recalibratable. Standardised outputs mean they are 'plug & play', simply exchange probes and rotate stock to keep all systems in calibration for maximum measurement accuracy.

There is a range of temperature elements for preferred output and accuracy. Choose from a linear 0-1 volt output, digital, thermistor or PT100 temperature element. For other output choices please Contact Skye.

The RHT+ probe can be used with Skye's radiation screen for accurate measurement of shade temperature outdoors, or as a bare probe in indoor, shaded installations.

For installations in marine and coastal environments or installations that are exposed to high dust levels or acidic gaseous conditions, we recommend the use of our breathable protective covers to reduce the impact on the probe.



Highest quality, meteorological specification sensors
Fully recalibratable
Easy 'plug & play' interchange
Choice of temperature elements and outputs

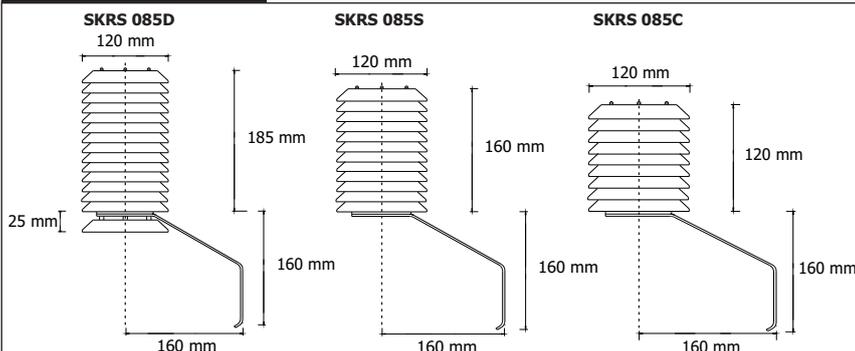
RHT+ SPECIFICATIONS

Dimensions -		Response Time - Typically less than 10 sec between 10 - 75% RH for 90% of the step.
Weight -	160g excluding cable and connector.	Recalibration - Fully recalibratable.
Construction -	Anodised aluminium body with PTFE grade A sensor head, fitted with 32 micron stainless steel gauze protection.	Accuracy - <i>Humidity</i> : better than 2%. <i>Temperature</i> : Digital T : typ $\pm 0.2^{\circ}\text{C}$ max $\pm 0.5^{\circ}\text{C}$. PT100 : typ $\pm 0.15^{\circ}\text{C}$ max $\pm 0.35^{\circ}\text{C}$. Thermistor : max $\pm 0.2^{\circ}\text{C}$ (0-60°C)
Cable -	3m screened cable.	Excitation Time - RH : 450 msecs Digital T: 750 msecs PT100 : 10 msecs Thermistor : 0 msecs
Sensor -	<i>Humidity</i> : Capacitive. <i>Temperature</i> : Digital, PT100 or 10kohm thermistor.	Power Supply - 5 to 15VDC
Operating/Measuring Range -	<i>Humidity</i> : 0-100%. <i>Temperature</i> : -40 to +60°C (extended temperature range available).	Power Consumption - SKH 2060 7mA (max 9mA) SKH 2065 10mA (max 12mA) SKH 2070 7mA (max 9mA)
Output Signals -	<i>Humidity</i> : 0-1V (options up to 0-4V). <i>Temperature</i> : Digital T: 0-1V. PT100: 0-1V. Thermistor: Direct resistance (10kohm curve matched)	Resolution - <i>Humidity</i> : 0-1V: 0.025% RH. <i>Temperature</i> : Digital T: 0.125%. PT100 & Thermistor: datalogger dependent.

ORDERING INFORMATION

Sensors
SKH 2060 - RHT+ probe with digital temperature sensor and RH. Output 0-1V.
SKH 2065 - RHT+ probe with PT100 temperature sensor and RH. Output 0-1V.
SKH 2067 - Air Temperature probe with PT100 + 3m cable. Output 0-1V
SKH 2070 - RHT+ probe with 0-1V RH output and 10kohm thermistor temperature output.
SKH 2072 - Air Temperature probe with thermistor + 3m cable. Output 10k thermistor.
SKH 2080 - Relative Humidity Probe with 3m cable. Output 0-1V.
Radiation Screens - All screens come with pole/wall mount for the RHT+ Probe
SKRS 085S - Standard Radiation screen
SKRS 085C - Low Wind Resistance Radiation Screen
SKRS 085D - High Accuracy Radiation Screen

RADIATION SCREENS



If the RHT+ relative humidity and air temperature probes are to be used outdoors or in direct sunshine, then a radiation screen should be fitted. A radiation screen ensures that accurate shade temperature, not direct sunlight temperature, is measured. It also offers physical protection to the probe when outdoors.

Radiation screens: white, UV resistant plastic.
Pole mount: white painted aluminium.