

## SKYE INSTRUMENTS LIMITED

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### **rht+ RH / Temperature Probes Extended Temperature Range**

The standard rht+ probes using the PT100 resistance temperature element have an output of 0-1V over the measurement range of -40 to +60°C. These probes will operate up to 70°C but the calibration is not specified above 60°C.

The Extended Temperature range version undergoes a higher temperature calibration and so offers more accurate measurements at the higher temperatures. These probes have an “/ET” suffix after the relevant part number.

As all rht+ probes have a sensitivity of 10 mV / °C, then the Extended Temperature range probes will have an output equivalent to 0 to 1.1 V = -40 to +70°C. The power supply required is between 5-15 VDC @ maximum 10 mA.

The accuracy of the probe remains the same over the extended temperature range.

#### **ACCURACY**

RH  $< \pm 2\%$  over 0-100% RH

Temperature Typically  $< \pm 0.15^\circ\text{C}$ , maximum error  $\pm 0.35^\circ\text{C}$

#### **ORDERING INFORMATION**

SKH 2065/ET **rht+** probe with RH and PT100 temperature sensors.  
RH output 0-1V = 0-100% RH  
Temperature output 0 to 1.1 V = -40 to +70°C

SKH 2067/ET **rht+** probe with PT100 temperature sensor.  
Temperature output 0 to 1.1 V = -40 to +70°C