

6539

HUMIDITY AND TEMPERATURE PROBE



MODEL B



The 6539 humidity and temperature probe is designed for reliable outdoor humidity and temperature measurements. The probe is very accurate, has excellent long-term stability and negligible hysteresis.

The humidity and temperature probe's small diameter allows it to be used in applications with space restrictions, for example, shipping containers or between planks in timber drying kilns. It is designed especially for demanding outdoor applications.

The probe has the proven HUMICAP® 180R humidity sensor that has excellent stability and withstands harsh environments as well as Pt100 RTD temperature sensor. The probe structure is solid and the sensor is protected

by default with a sintered Teflon filter, which gives maximum protection against liquid water, dust, and dirt.

The 6539 probe is also a warmed probe which reduces the risk of condensation forming on the head of the probe and with that reduces chance of measurement data corruption.

The probe can be used in conjunction with the Model 6704A Radiation Gill Screen & Mount in standalone situations.

SPECIFICATIONS

PHYSICAL SPECIFICATIONS	
SIZE:	Diameter 40mm x 267mm tall, IP66
WEIGHT:	350 grams
OPERATING TEMPERATURE:	-80°C to 60°C. Not affected by humidity
ELECTRICAL SPECIFICATIONS	
RELATIVE HUMIDITY	
RANGE:	0 ... 100%RH
ACCURACY:	±1%RH at +15° to +25°C and 0-90%RH ±1.7%RH at +15° to +25°C and 90-100%RH ±(1+0.008 x reading)%RH for -20° to +40°C

TEMPERATURE	
RANGE:	-80 ... +60°C (-112 ... +140°F)
ACCURACY:	±(0.226-0.0028 x temperature)° for -80° to +20°C ±(0.055+0.0057 x temperature)° for +20° to +60°C
OPERATING VOLTAGE:	7 ... 28 VDC, minimum operating voltage 12V with 0-5V output.
TYPICAL CURRENT CONSUMPTION:	3 mA at 12 VDC (with defaults)
OUTPUTS:	1 analog 0-1VDC – Relative Humidity 1 analog 0-1VDC – Temperature
CABLE:	3.5m of 4 core cable