

Documentation de la sonde HMP45A

HMP45A & HMP45D Relative Humidity and Temperature Probes

Versatile probes

The HMP45A and HMP45D humidity and temperature probes are designed for a wide range of instrumentation (e.g. recorders, data loggers, laboratory equipment and weather stations.)

Vaisala's HUMICAP® Sensor

The combined performance of the HUMICAP®180 sensor and IP65 protected probe provides accurate and repeatable humidity and temperature measurements in high humidity.

Technical Data

General

Operating temperature range	-40...+60 °C
Storage temperature range	-40...+80 °C
Supply voltage	7...35 VDC
Settling time	500 ms
Power consumption	<4 mA
Output load	>10kohm (to ground)
Weight	350 g (incl. package)
Cable length	3.5 m
Housing material	ABS plastic
Housing classification (electronics)	IP65

Relative Humidity

HMP45A & HMP45D

Measuring range:	0.8 to 100 %RH
Output scale	0...100 %RH equals 0...1 VDC
Accuracy at +20 °C (incl. nonlinearity and hysteresis)	
against factory references	±1 %RH
field calibration against references	±2 %RH (0...90 %RH) ±3 %RH (90...100 %RH)
Humidity sensor	HUMICAP® 180

Temperature

HMP45A

Measurement range	-39.2...+60 °C
Output scale	-40...+60 °C equals 0...1 VDC
Accuracy at +68 °F (+20 °C)	±0.2 °C
Temperature sensor	Pt 1000 IEC 751