PCMini52

Relative Humidity and Temperature Transmitter Mini Probe



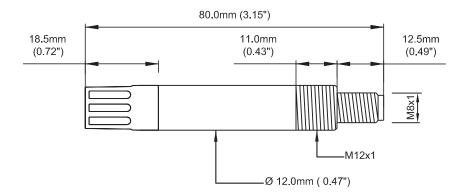
The microprocessor control and multi-point calibration gives the PCMini52 RH transmitter excellent performance in terms of accuracy and linearity. The mini probe transmitter can provide two linear analog outputs for temperature and relative humidity, dew point or absolute humidity.

Highlights

- Output can be %RH, calculated absolute humidity, dew point or wet bulb temperature + temperature
- Excellent linearity, microprocessor corrected and temperature compensated
- · Low power consumption, fast settling time
- Small size: 3.15" x 0.47"ø / 80mm x ø12mm

Technical Specification	ons	
Performance		
Measurement range (RH)	0–100% RH	
Measurement range (T)	-4 to +176°F / -20 to +80°C	
0	,	
RH Accuracy at 23°C / 73°F	<±2% RH (10–90% RH)	
Temperature Accuracy	±0.36°F (14 to 122°F) ±0.2°C (-10 to +50°C)	
Stability - RH Sensor	±1% RH/year	
Response time – RH Sensor	<10 sec typical (for 90% of the step change)	
Electrical output/input		
Output signal options	0-1 VDC, 0-5 VDC, 0-10 VDC	
Supply voltage	14–35 VDC (for 0–5 & 0-10 VDC) 4.5–35 VDC (for 0–1 VDC) and 14–26 VAC	
Operating conditions		
Operating humidity Probe, Housing, Storage	5-95% RH (non-condensing)	
Operating temperature Sensing element Housing Storage	-25 to +185°F / -30 to +85°C -25 to +185°F / -30 to +85°C -40 to +160°F / -40 to +85°C	
Mechanical specification		
Ingress protection	IP65	
Housing material	Molded polymer housing, or stainless steel	
Dimensions	L=3.15" x ø 0.47" / L=80mm, ø12mm	
Weight	10g / 0.4oz	
Electrical connections	4 pin, H8 connector	

Dimensions

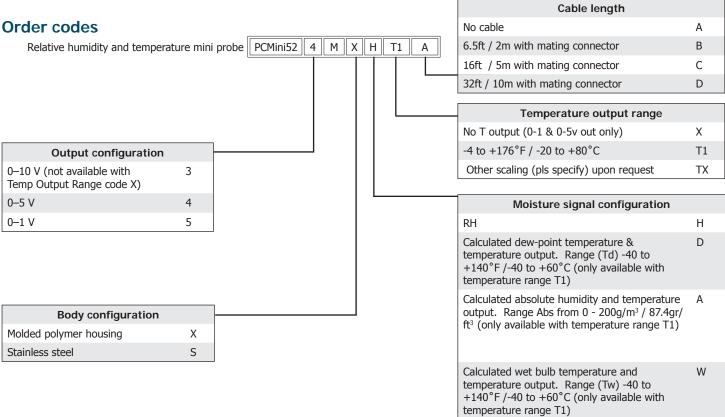




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Accessories and spare parts	
Check your hygrometer with the control kit HKC which is based on the principle of non-saturated salt solutions. Refer to technical data sheet CONTROL KIT.	Control Kit HKC
Connector with 6.5ft / 2m cable	A000033
Connector with 16ft / 5m cable	A000036
Connector with 32ft / 10m cable	A000037
Connector without wire	A000321
Slotted protection cap, black	A000003 (standard)
PVDF filter	A000017
PVDF filter with protection cap	A000018
Wire mesh filter with protection cap, black	A000022
Stainless steel sintered dust filter	A000023
Stainless steel sintered filter 20 µm pore size	A000028
1/2" NPT adj fitting stainless steel. Only to be used with stainless steel probe housing	A000101
Aluminum mounting flange	A000111

Electrical Connections	
Cable	
Brown	Supply voltage V+
White	Output RH, Dew Point, Absolute Humidity or Wet Bulb
Black	Output temperature
Blue	Common ground



Example: PCmini52 4 M X H T1 A

Relative humidity and temperature mini probe PCmini52, 0-5 V output, molded polymer housing, 0-100% RH signal, -4 to 176°F / -20 to 80°C temperature range, no cable.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: PCmini52_1001US_P



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