# PCMini52

# **Digital Relative Humidity and Temperature Mini Probe**

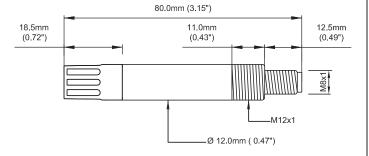


The micro processor control and multi-point calibration gives the PCMini52 RH probe excellent performance in terms of accuracy and linearity. The mini probe can provide two linear analog outputs for temperature and relative humidity, dew point, absolute humidity or wet bulb temperature.

### **Highlights**

- · Analog voltage outputs
- Output can be % RH, calculated absolute humidity, dew point or wet bulb temperature and temperature
- Excellent linearity, micro processor temperature compensated
- Low power consumption, fast settling time
- Small size: L = 80mm, ø12mm (L = 3.15", ø0.47")
- Stainless steel and molded polymer variants

#### **Dimensions**



## **Technical Specifications**

recinical Specific	cations	
Performance		
Measurement range (RH)	0–100% RH	
Measurement range (T)	-20 to +80°C (-4 to +176°F)	
Accuracy @ 23°C (73°F) humidity	<±2% RH (10–90% RH)	
Accuracy @ 23°C (73°F) temperature	±0.2°C (±0.36°F)	
Stability - RH sensor	±1% RH/year	
Response time – RH sensor	<10 sec typical (for 90% of the step change)	
Electrical Specifications		
Output signal options	0 to 1, 0 to 5, 0 to 10 V	
Supply voltage	14 to 35 V DC (for 0 to 5 / 10 V output) 4.5 to 35 V DC (for 0 to 1 V output)	
Current consumption	4 mA on a typical voltage lead	
CE marked	Certified	
Operating Specifications		
Operating temperature Sensing element Housing Storage	-30 to +85°C (-22 to +185°F) -30 to +85°C (-22 to +185°F) -40 to +85°C (-40 to +185°F)	
Mechanical Specifications		
Ingress protection	IP65 (NEMA 4 level)	
Housing material	Molded polymer / stainless steel (options)	
Dimensions	L=80mm, ø12mm (L=3.15", ø0.47")	
Filter	PVDF / HDPE / mesh / sintered (options)	
Weight	10g (0.35oz)	
Electrical connections	4 pin, M8 connector	

#### **Accessories and Spare Parts**

12mm (0.47") Slotted protection cap, black	A000003
12mm (0.47") PVDF filter	A000017
12mm (0.47") PVDF filter with protection cap, black	A000018
12mm (0.47") Mesh filter with protection cap, black	A000022
12mm (0.47") Flat SS sintered dust filter	A000023
12mm (0.47") Arrow 20µm SS sintered filter	A000028
13mm (0.51") HDPE protection cap	A000046
12mm (0.47") Connector with 2m (6.5') cable	A000033
12mm (0.47") Connector with 5m (16') cable	A000036
12mm (0.47") Connector with 10m (33') cable	A000037
12mm (0.47") Connector with 20m (66") cable	A000322
1/2" NPT SS adj fitting for SS probe	A000101
Aluminum mounting flange for ø12mm (ø0.47") SS probes	A000111
ø90mm (3.54") WM weather protection cap (in combination with A000111 for ø12mm (0.47") probes)	A000120
ø120mm (4.72") WM weather prot. cap (in combination with A000111 for ø12mm (0.47") probes)	A000125
12mm (0.47") Connector without cable (with solder terminals)	A000321
12mm (0.47") Connector with 20m (25.6') cable*	A000322
Non-saturated salt solution kit (refer to technical datasheet)	HKC

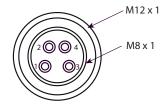
<sup>\*</sup>Non standard cable length available upon request



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#### **Electrical Connections**

Mating Cable		Pin
Brown	Supply voltage V +	1
White	Output RH, dew point or absolute humidity	2
Blue	Common ground	3
Black	Output temperature	4



### **Ordering Codes**

To construct the order code, select the relevant feature from the tables below, starting with the base model, which is  $\{Feature A\}$  and then add on options to create a string:  $\{Feature A\} + \{Feature B\} + \{Feat$ 

Order example: PCMINI52 + 4 + XX + H + T1 + CA + F03

PCMini52, 0 to 5 V output, molded polymer body, 0-100% RH signal, -20 to +80°C (-4 to +176°F) temperature range, no cable, 12mm (0.47") slotted protection cap black

