

PCMini70

Relative Humidity and Temperature Mini Probe

The PCMini70 is a relative humidity mini probe based on the interchangeable Hygrosmart module.



Highlights

- Designed for OEM applications
- Based on the interchangeable Hygrosmart module
- Compact housing

Technical Specifications

Performance

Measurement range (RH)	0–100% RH
Measurement range (T)	-30 to +85°C (-22 to +185°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5–95% RH)
Accuracy at 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 output/input

Output signal (RH)	0-1 V
Output signal (T)	3-wire 1/3 DIN Pt100 direct
Supply voltage	5 V DC ±5%
Load resistance	R > 5K Ω Digital: CMOS compatible
Current consumption	1.5 mA max

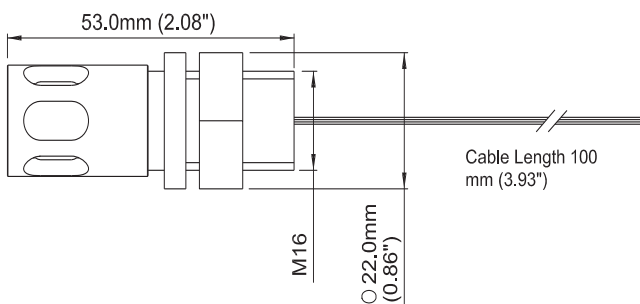
Operating conditions

Operating temperature Sensing element	-30 to +85°C (-22 to +185°F)
Housing	-40 to +85°C (-40 to +185°F)
Storage	-40 to +85°C (-40 to +185°F)

Mechanical specification

Housing material	AISI 316
Dimensions	L=53mm , ø22mm (L=2.08" , ø0.86")
Filter	AISI 316 Stainless steel mesh
Weight	65g (2.3oz)
Electrical connections	Threaded nipple + nut

Dimensions



Electrical Connections

Cable		
Green	Pt100	
White	Pt100	
White	Pt100	
Black	0 V	- Common ground
Red	+5 V	- Supply Voltage V+
Violet	Out V	- Output RH (Volt)
Yellow	Out F	- Output RH (freq)

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

Issue No: PCMini70_97177_V3_UK_0616

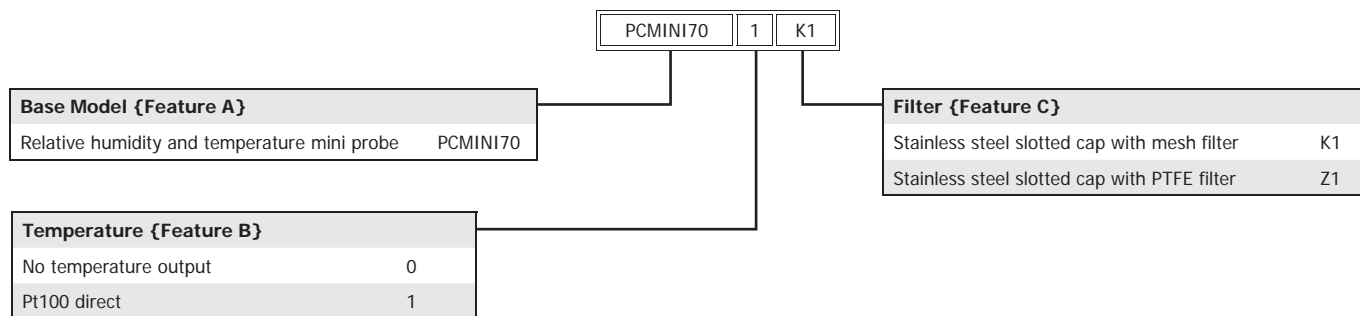
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Order Codes

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}+{Feature C}

Order example: PCMINI70+1+K1

Relative humidity and temperature mini probe PCMini70, Pt100 direct output and stainless steel cap slotted with mesh filter



Accessories and Spare Parts

Interchangeable RH and Temperature Sensor	I7000-XP
Stainless steel probe 250mm (9.84"), stainless steel cover & mesh filter	K1
Slotted stainless steel cap with PTFE filter	Z1

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