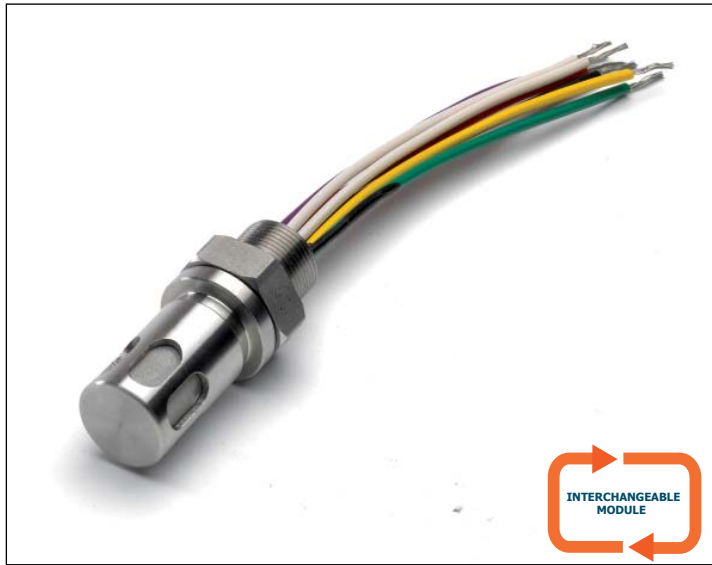


PCMini70

Relative Humidity and Temperature Mini Probe



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

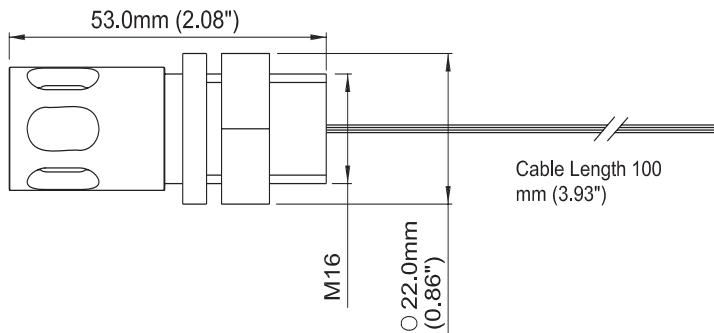
Highlights

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

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-22 to +185°F / -30 to +85°C
RH Accuracy at 23°C / 73°F	<±2% RH (5–95% 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 (RH)	0-1 V
Output signal (T)	3-wire 1/3 DIN Pt100 direct
Supply voltage	5 VDC ±5%
Load resistance	R > 5K Ω Digital: CMOS compatible
Current consumption	1.5 mA max
Operating conditions	
Operating humidity Probe, Housing, Storage	0–100% RH
Operating temperature Sensing element Housing Storage	-22 to +185°F / -30 to +85°C -40 to +185°F / -40 to +85°C -40 to +185°F / -40 to +85°C
Mechanical specification	
Housing material	AISI 316
Dimensions	L=2.08", ø0.86" / L=53mm, ø22mm
Filter	AISI 316 stainless steel mesh
Weight	2.3oz / 65g
Electrical connections	Threaded nipple + nut

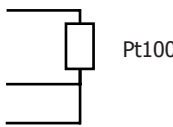
Dimensions



Accessories and spare parts

Hygrosmart without Pt100	I7 0 00 0
Hygrosmart with Pt100	I7 0 00 1
Stainless steel slotted cap with mesh filter (standard)	K1
Stainless steel slotted cap with PTFE filter	Z1

Electrical Connections

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

Order codes

Relative humidity and temperature mini probe PCmini70 1 K1

Temperature output signal	
No temperature output	0
Pt100 direct (standard)	1

Filter	
Stainless steel slotted cap with mesh filter (standard)	K1
Stainless steel slotted cap with PTFE filter	Z1

Example: PCmini70 1 K1

Relative humidity and temperature mini probe PCmini70, with Pt100 direct output and stainless steel slotted cap with mesh filter.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: PCMini70_1001US_P

