

PCMini70

Relative Humidity and Temperature Mini Probe

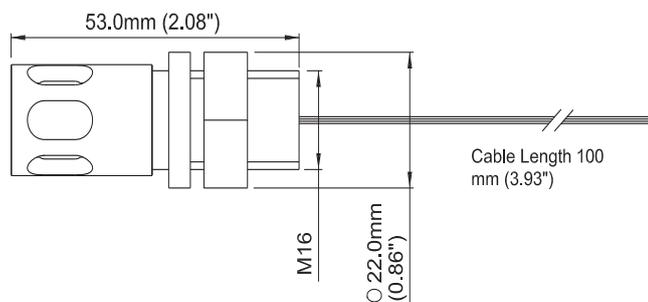


The PCMini70 is a relative humidity mini probe based on the interchangeable Hygrosmart module.

Highlights

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

Dimensions



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	-30 to +85°C (-22 to +185°F)
Sensing element	-40 to +85°C (-40 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

Accessories and Spare Parts

Hygrosmart without Pt100 output	17-0-00-0
Hygrosmart with Pt100 output	17-0-00-1
SS cap slotted with mesh filter	K1
SS cap slotted with PTFE filter	Z1

Electrical Connections

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

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}+{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

