

PFMini72

Relative Humidity and Temperature Probe



Technical Specifications

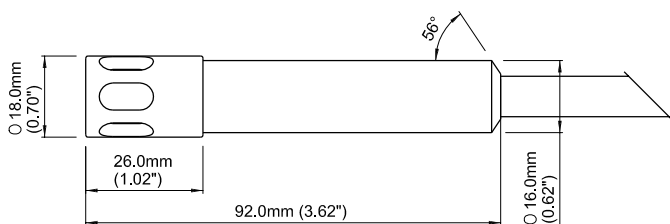
Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-20 to +80°C (-4 to +176°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5–95% RH)
Accuracy at 23°C (73°F) Temperature	±0.2°C (±0.36°F)
Stability – RH Sensor	<±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal (RH)	0–1 V
Output signal (T)	0–1 V or 3-wire 1/3 DIN Pt100 direct
Supply voltage	5.5–32 V DC
Current consumption	2 mA max
Operating conditions	
Operating humidity Probe, Housing, Storage	0–100% RH
Operating temperature Probe Housing Storage	-20 to +80°C (-4 to +176°F) -20 to +80°C (-4 to +176°F) -40 to +85°C (-40 to +185°F)
Mechanical specification	
Ingress protection	IP65 (NEMA 4 level)
Housing material	INOX 316L
Dimensions	L=92mm, ø18mm (L=3.62", ø0.70")
Weight	150g (5.29oz)
Electrical connections	4- or 6-wire output cable, length 2m (6.5')

PFMini72 relative humidity probes are equipped with the Hygrosmart relative humidity sensor/converter. This interchangeable module has miniaturized electronics and does not require re-calibration.

Highlights

- Designed for meteorological applications
- Based on the interchangeable Hygrosmart module

Dimensions



Accessories and Spare Parts

Mounting clip	2510367
Hygrosmart without Pt100 output	I7-0-00-0
Hygrosmart with Pt100 output	I7-0-00-1
SS cap slotted with mesh filter	K1
SS cap slotted with PTFE filter	Z1

Electrical Connections

4 wire cable	
White	Output RH +
Black	Common ground
Red	Power supply V+
Blue	Output temperature +

6 wire cable	
White	Output RH +
Black	Common ground
Red	Power supply V+
Blue	
Yellow	
Green	

Ordering Example

PFMINI72-BASE-1-B1-2-K1

Relative humidity and temperature mini probe PFMini72, Pt100 direct output, stainless steel body, 2m (6.5') cable, stainless steel slotted cap with mesh filter

Order Codes

PFMini72 - Relative Humidity and Temperature Probe		
Feature	Item	Description
Base Model	PCMINI72-BASE	Base unit
Temp	PCMINI70-0	No temperature output
	PCMINI70-1	Pt100 direct
	PCMINI70-B	0-1 V (-20 to +80°C (-4 to +176°F) range)
Body	PFMINI72-B1	Stainless Steel
Cable	PFMINI72-2	2m (6.5')
Filter	PCMINI70-K1	SS cap slotted with mesh filter
	PCMINI70-Z1	SS cap slotted with PTFE filter