

PC62 & 62V

Relative Humidity and Temperature Transmitter Digital



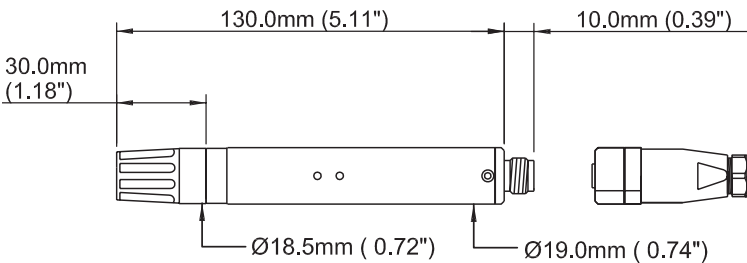
The PC series offers a comprehensive range of relative humidity transmitters for accurate, stable and repeatable measurements. Available with analog or digital output signals, the PC series can be installed in a wide variety of applications.

Highlights

- PC62 is designed for high accurate measurements in precision manufacturing applications
- Digital or analog outputs possible
- PC62 available with calculated absolute humidity, dew point or wet bulb temperature output
- Output range on the PC62V is free scalable

Technical Specifications	
Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-4 to +176°F / -20 to +80°C
Accuracy at 23°C (73°F) Humidity	<±2% RH (10–90 % 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	0–1, 0–5, 0–10 VDC RS232, RS485
Supply voltage	14–30 VDC, 5–30 VDC (0–1 V output)
Operating conditions	
Operating humidity Probe, Housing, Storage	5-95% RH
Operating temperature Probe, Housing Storage	-20 to +185°F / -30 to +85°C -40 to +185°F / -40 to +85°C
Mechanical specification	
Ingress protection	IP65
Housing material	Molded polymer housing or stainless steel
Dimensions	L=5.11", ø0.74" / L=130, ø19mm
Weight	1.1oz / 30g without cable (molded polymer housing version)
Electrical connections	M12

Dimensions



Accessories and spare parts

You can check your hygrometer with the control kit HKC which is based on the principle of non-saturated salt solutions. Refer to technical data sheet CONTROL KIT.	Control Kit HKC
Connector, screws	A000030
Connector with 6.5ft / 2m cable	A000031
Connector with 16ft / 5m cable	A000032
Slotted protection cap, black (standard)	A000002
PVDF filter	A000014
PVDF/Foil filter with protection cap, black	A000015/44
Wire mesh filter with protection cap, black	A000021
Stainless steel sintered filter 5/10/20µm	A000025/26/27
Foil filter 2µm with black protection cap	A000040
Aluminum mounting flange	A000110
Stainless steel fitting	A000100
Molded polymer housing mounting flange	A000150
Weather cap, wall ø90.0mm / ø3.54", ø19mm / ø0.74" probe	A000120
Weather cap, wall ø120.0mm / ø4.72", ø19mm / ø0.74" probe	A000125

Electrical Connections

Voltage output (PC62V)		
Cable	Connector	
White	Pin 1	Power Supply V +
Green	Pin 4	Output RH +
Yellow	Pin 2	Output temperature +
Brown	Pin 3	Common return

Digital Output (PC62)			
Cable	Connector	RS232	RS485
White	Pin 1	Power supply V+	Power Supply V +
Green	Pin 4	TX	TX/RX+
Yellow	Pin 2	RX	RX/TX-
Brown	Pin 3	Ground	Common return

Order codes

Relative humidity and temperature probe PC62 4 XX TC A

Accuracy and version configuration	
2% accuracy, digital probe with RS232 or RS485 output	PC62
2% accuracy, digital probe with voltage output	PC62V

Output configuration	
0-10 V (PC62V only)	3
0-5 V (PC62V only)	4
0-1 V (PC62V only)	5
RS232 (PC62 only)	0
RS485 (PC62 only)	1

Body configuration	
Molded polymer housing	XX
Stainless steel	SX

Cable length	
No cable	A
Mating connector, no cable	B
6.5ft / 2m cable with mating connector	C
16ft / 5m cable with mating connector	D

Temperature output configuration	
-4 to +176°F / -20 to +80°C (std range)	*
PC62 with digital output in °C	TC
PC62 with digital output in °F	TF
PC62V with calculated dew-point temperature & temperature output. Range (Td) -40 to +140°F / -40 to +60°C (only available with std temp range *)	TD
PC62V with calculated absolute humidity and temperature output. Range Abs from 0 - 200g/m ³ / 87.4gr/ft ³ (only available with std temp range *).	TA
PC62V with calculated wetbulb temperature and temperature output. Range (Tw) -40 to +140°F / -40 to +60°C.	TW

Example: PC62V 4 XX T1 A

Relative humidity and temperature probe PC62V, 0-5 V output, Molded polymer housing, with RH output from 0-100%RH and temperature output -4 to 176F, no cable.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: PC62&62V_1001US_P



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