

# PC62 & 62V

## Relative Humidity and Temperature Transmitter Digital



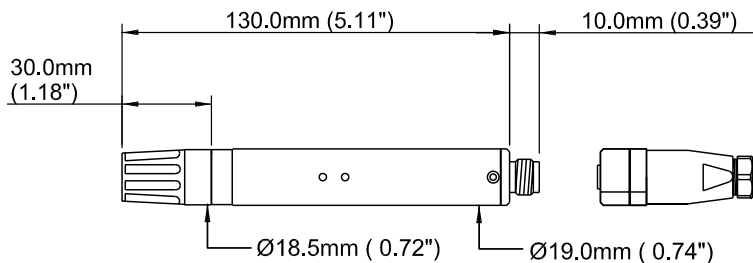
The PC series offers a comprehensive range of relative humidity transmitters for accurate, stable and repeatable measurements. Available with analog or digital output signals, the PC series can be installed in a wide variety of applications.

### Highlights

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

Technical Specifications	
<b>Performance</b>	
<b>Measurement range (RH)</b>	0–100% RH
<b>Measurement range (T)</b>	-20 to +80°C / -4 to +176°F
<b>Accuracy at 23°C (73°F) Humidity</b>	<±2% RH (10–90 % RH)
<b>Accuracy at 23°C (73°F) Temperature</b>	±0.2°C (-10 to +50°C) ±0.36°F (14 to 122°F)
<b>Stability – RH Sensor</b>	±1% RH/year
<b>Response time – RH Sensor</b>	<10 sec typical (for 90% of the step change)
<b>Electrical output/input</b>	
<b>Output signal</b>	0–1, 0–5, 0–10 VDC RS232, RS485
<b>Supply voltage</b>	14–30 VDC, 5–30 VDC (0–1 V & mA output)
<b>Operating conditions</b>	
<b>Operating humidity</b> Probe, Housing, Storage	5-95% RH
<b>Operating temperature</b> Probe,Housing Storage	-30 to +85°C / -22 to +185°F -40 to +85°C / -40 to +185°F
<b>Mechanical specification</b>	
<b>Ingress protection</b>	IP65
<b>Housing material</b>	Moulded polymer housing or stainless steel
<b>Dimensions</b>	L=130, ø19mm / L=5.11", ø 0.74"
<b>Weight</b>	30g / 1.06oz without cable (moulded polymer housing version)
<b>Electrical connections</b>	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.	<b>Control Kit HKC</b>
Connector, screws	<b>A000030</b>
Connector with 2m / 6.5' cable	<b>A000031</b>
Connector with 5m / 16' cable	<b>A000032</b>
Slotted protection cap, black (standard)	<b>A000002</b>
PVDF filter	<b>A000014</b>
PVDF/Foil filter with protection cap, black	<b>A000015/44</b>
Wire mesh filter with protection cap, black	<b>A000021</b>
Stainless steel sintered filter 5/10/20µm	<b>A000025/26/27</b>
Foil filter 2µm with black protection cap	<b>A000040</b>
Aluminum mounting flange	<b>A000110</b>
Stainless steel fitting	<b>A000100</b>
Moulded polymer housing mounting flange	<b>A000150</b>
Weather cap, wall ø90.0mm / 3.54", ø19mm / 0.74" probe	<b>A000120</b>
Weather cap, wall ø120.0mm / 4.72", ø19mm / 0.74" probe	<b>A000125</b>

Electrical Connections		
Voltage output		
Cable	Connector	
White	Pin 1	Power Supply V +
Green	Pin 4	Output RH +
Yellow	Pin 2	Output temperature +
Brown	Pin 3	Common ground

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	Ground

## Order codes

Relative humidity and temperature probe



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

Output configuration	
0-10 V	3
0-5 V	4
0-1 V	5
RS232 (only available with digital probes)	0
RS485 (only available with digital probes)	1

Body configuration	
Moulded polymer housing	XX
Stainless steel	SX

Cable length	
No cable	A
Screw connector, no cable	B
2m / 6.5' cable including screw connector	C
5m / 16' cable including screw connector	D

Temperature output configuration	
-20 to +80°C / -4 to +176°F default 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 +60°C / -40 to +140°F (only available with default range *)	TD
PC62V with calculated absolute humidity and temperature output. Range Abs from 0 - 200g/m <sup>3</sup> / 87.4gr/ft <sup>3</sup> (only available with default range *)	TA
PC62V with calculated wetbulb temperature and temperature volt output. Range (Tw) -40 to +60°C / -40 to +140°F	TW

### Example: PC62 4 XX TC A

Relative humidity and temperature probe PC62, Moulded polymer housing, 0-5 V output, with digital output in °C. 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\_97209\_V1\_UK\_1009**