PC62 & 62V Digital Relative Humidity & Temperature Probe with Digital or Analog Output



The PC series offers a comprehensive range of relative humidity probes 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

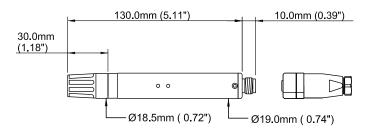
Technical Specifications

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 (10-90% 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	0–1, 0–5, 0–10 V, RS232, RS485						
Supply voltage	14-30 V DC, 5-30 V DC (0-1 V & mA output)						
Operating conditions	Operating conditions						
Operating humidity Probe, Housing, Storage	5-95% RH						
Operating temperature Probe, Housing Storage	-30 to +85°C (-22 to +185°F) -40 to +85°C (-40 to +185°F)						
Mechanical specifica	tion						
Ingress protection	IP65 (NEMA 4 level)						
Housing material	Molded polymer or stainless steel (ordering option)						
Dimensions	L=130mm, ø19mm (L=5.11", ø0.74")						
Weight	30g (1.06oz) (molded polymer) without cable						
Electrical connections	M12						

Accessories and Spare Parts

19mm (0.75") Slotted protection cap black	A000002
19mm (0.75") PVDF filter	A000014
19mm (0.75") PVDF filter with protection cap black	A000015
19mm (0.75") Mesh filter with protection cap black	A000021
19mm (0.75") Arrow SS sintered filter 5µm / 10µm / 20µm	A000025/26/27
19mm (0.75") Connector, no cable, with screw terminals	A000030
19mm (0.75") Connector, with cable (customer spec length)	A000030XM
19mm (0.75") Connector with 2m (6.5') cable	A000031
19mm (0.75") Connector with 5m (16') cable	A000032
19mm (0.75") Foil filter $2\mu m$ with protection cap black	A000040
Oleophobic foil filter $0.7 \mu m$ with protection cap black	A000042
19mm (0.75") Foil filter 1.5µm w/protection cap black	A000044
3/4" NPT SS adj. fitting for SS probes	A000100
Al mounting flange for ø19.0mm (ø0.75") SS probe	A000110
Mini flange for ø19.0mm (ø0.75") molded polymer probe	A000150
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

Dimensions



Issue No: PC62&62V_97209_V2_UK_1110



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

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PC62 & 62V

Electrical Connections

	Voltage output					
Cable	Connector		Cable	Connector	RS232	RS485
White	Pin 1	Power Supply V +	White	Pin 1	Power supply V +	Power Supply V +
Green	Pin 4	Output RH +	Green	Pin 4	ТХ	TX/RX +
Yellow	Pin 2	Output temperature +	Yellow	Pin 2	RX	RX/TX -
Brown	Pin 3	Common ground	Brown	Pin 3	Ground	Ground

Ordering Example

PC62V-BASE-4-XX-T1-TD-CA-02

Relative humidity and temperature probe PC62V, 0-5 V output, molded polymer, temp range -20 to +80°C (-4 to +176°F) with calculated dew-point temperature and temperature output, no cable, 19mm slotted protection cap, black

Order Codes

Feature	Item	Description	Feature	Item	Description
Base Model	PC62-BASE	Base unit	Base Model	PC62V-BASE	Base unit
Sig Output	PC62-0	RS232			0.10.1/
	PC62-1	RS485	Sig Output	PC62V-3 PC62V- 4	0-10 V
Body	PC62-SX	Stainless steel			0-5 V
	PC62-XX	Molded polymer		PC62V-5	0-1 V
Temp	PC62-TC	Digital output in °C	Body	PC62V-SX	Stainless steel
-	PC62-TF	Digital output in ^o F		PC62V- XX	Molded polymer
Cable	PC62-CA	No cable	Temp	PC62V- T1	-20 to +80°C (-4 to +176°F)
		19mm (0.75") Connector, no cable, with screw		PC62V-TX	Other output scaling available on request
	PC62-CB	terminals	Moist. Sig	PC62V-RH	RH
	PC62-CC	19mm (0.75") Connector with 2m (6.5') cable		PC62V-TA PC62V- TD	Abs 0-200g/m3, T= -20 to +80°C, Calc range output (Calculated absolute humidity and temp output - only available with -20 to +80°C (-4 to +176°F) default range) Td -40 to +60°C T= -20 to +80°C Calc range output (Calculated dew-point temp and temp output - only available with -20 to +80°C (-4 to
	PC62-CD	19mm (0.75") Connector with 5m (16') cable			
Filter PC62-02 PC62-15 PC62-21	PC62-02	19mm (0.75") slotted protection cap black			
	PC62-15	19mm (0.75") PVDF filter with protection cap black			
	PC62-21	19mm (0.75") Mesh filter with protection cap, black			+176°F) default range)
	PC62-25	19mm (0.75") Arrow SS sintered filter 5µm		PC62V-TW	Tw -40 to +60°C Calc Range output (Calculate wetbulb temp and temp volt output - only
	PC62-26	19mm (0.75") Arrow SS sintered filter 10µm		PC62V-TVV	available with -20 to +80°C (-4 to +176°F) default range)
	PC62-27	19mm (0.75") Arrow SS sintered filter 20µm	Cable	PC62V- CA	No cable
	PC62-40	19mm (0.75") Foil filter 2µm with protection cap black		PC62V-CB	19mm (0.75") Connector, no cable, with screw terminals
	PC62-42	Oleophobic foil filter 0.7µm with protection cap black		PC62V-CC	19mm (0.75") Connector with 2m (6.5') cable
		19mm (0.75") Foil filter 1.5µm w/protection cap		PC62V-CD	19mm (0.75") Connector with 5m (16') cable
	PC62-44	black	Filter	PC62V- 02	19mm (0.75") slotted protection cap black
				PC62V-15	19mm (0.75") PVDF filter with protection cap black
				PC62V-21	19mm (0.75") Mesh filter with protection cap, black
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19mm (0.75") Arrow SS sintered filter 5µm

19mm (0.75") Arrow SS sintered filter 10µm

19mm (0.75") Arrow SS sintered filter 20μm 19mm (0.75") Foil filter 2μm with protection cap

Oleophobic foil filter $0.7 \mu m$ with protection cap

19mm (0.75") Foil filter 1.5µm w/protection cap

PC62V-25

PC62V-26

PC62V-27

PC62V-40

PC62V-42

PC62V-44

black

black

black