

PC62 & 62V

Digital Relative Humidity & Temperature Probe with Digital or Analog Output

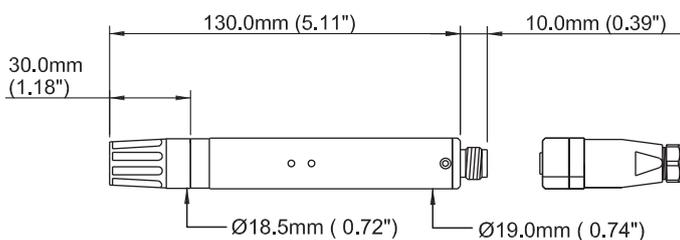


The PC series offers a comprehensive range of relative humidity probes for accurate, stable and repeatable measurements. Available with analog or digital output signals, the PC series can be installed in a wide variety of applications.

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

Dimensions



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 (for 0-5 / 0-10 V / RS485 / RS232 output) 5–30 V DC (0–1 V output)
Operating conditions	
Operating temperature Probe, Housing	-30 to +85°C (-22 to +185°F)
Storage	-40 to +85°C (-40 to +185°F)
Mechanical specification	
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 2µm with protection cap black	A000040
19mm (0.75") Oleophobic foil filter 0.7µm 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
Ø90.0mm (Ø3.54") Wall mount weather protection cap	A000120
Ø120.0mm (Ø4.72") Wall mount weather protection cap	A000125
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	HKC

PC62 & 62V

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

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}+{Feature D}+{Feature E}+{Feature F}+{Feature G}

Order example: PC62V+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

PC62	1	XX	TC	CA	02	PC62V	4	XX	T1	TD	CA	02
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Base Model {Feature A}	
Relative humidity and temperature probe	PC62

Signal Output {Feature B}	
RS232	0
RS485	1

Body {Feature C}	
Stainless steel	SX
Molded polymer	XX

Temperature {Feature D}	
Digital output in °C	TC
Digital output in °F	TF

Cable {Feature E}	
No cable	CA
19mm (0.75") Connector, no cable, with screw terminals	CB
19mm (0.75") Connector with 2m (6.5') cable	CC
19mm (0.75") Connector with 5m (16') cable	CD

Filter {Feature F}	
19mm (0.75") slotted protection cap black	02
19mm (0.75") PVDF filter with protection cap black	15
19mm (0.75") Mesh filter with protection cap, black	21
19mm (0.75") Arrow SS sintered filter 5µm	25
19mm (0.75") Arrow SS sintered filter 10µm	26
19mm (0.75") Arrow SS sintered filter 20µm	27
19mm (0.75") Foil filter 2µm with protection cap black	40
19mm (0.75") Oleophobic foil filter 0.7µm with protection cap black	42
19mm (0.75") Foil filter 1.5µm w/protection cap black	44

Base Model {Feature A}	
Relative humidity and temperature probe	PC62V

Signal Output {Feature B}	
0-10 V	3
0-5 V	4
0-1 V	5

Body {Feature C}	
Stainless steel	SX
Molded polymer	XX

Temperature {Feature D}	
-20 to +80°C (-4 to +176°F)	T1
Other output scaling available on request	TX

Moisture Signal {Feature E}	
RH	RH
Output 1: Abs 0-200g/m3, Output 2: T= -20 to +80°C (Calculated absolute humidity - only available with Output 2 range: -20 to +80°C (-4 to +176°F))	TA
Output 1: Td -40 to +60°C Output 2: T= -20 to +80°C (Calculated dew-point temp - only available with Output 2 range: -20 to +80°C (-4 to +176°F))	TD
Output 1: Tw -40 to +60°C Output 2: T= -20 to +80°C (Calculated wetbulb temp - only available with Output 2 range: -20 to +80°C (-4 to +176°F))	TW

Cable {Feature F}	
No cable	CA
19mm (0.75") Connector, no cable, with screw terminals	CB
19mm (0.75") Connector with 2m (6.5') cable	CC
19mm (0.75") Connector with 5m (16') cable	CD

Filter {Feature G}	
19mm (0.75") slotted protection cap black	02
19mm (0.75") PVDF filter with protection cap black	15
19mm (0.75") Mesh filter with protection cap, black	21
19mm (0.75") Arrow SS sintered filter 5µm	25
19mm (0.75") Arrow SS sintered filter 10µm	26
19mm (0.75") Arrow SS sintered filter 20µm	27
19mm (0.75") Foil filter 2µm with protection cap black	40
19mm (0.75") Oleophobic foil filter 0.7µm with protection cap black	42
19mm (0.75") Foil filter 1.5µm w/protection cap black	44