

PC72V

Relative Humidity and Temperature Transmitter Digital



The PC72V is designed for accurate and stable measurement of relative humidity and temperature. It is equipped with digital technology which enables the user to change settings. This technology also allows for on-site re-calibration, if necessary. The PC72V sensors are protected by GORETEX® membrane filters.

Highlights

- The PC72V is specifically designed for meteorological applications

Technical Specifications

Performance

Measurement range (RH)	0–100% RH
Measurement range (T)	-40 to +140°F / -40 to +60°C
Accuracy at 23°C (73°F) Humidity	<±2% RH (10–90 % RH)
Accuracy at 23°C (73°F) Temperature	±0.36°F ±0.2°C
Stability – RH Sensor	±1% RH/year (depending on environmental conditions)
Response time – RH Sensor	<10 sec typical (for 90% of the step change)

Electrical output/input

Output signal	0–1VDC
Supply voltage	8-35 VDC

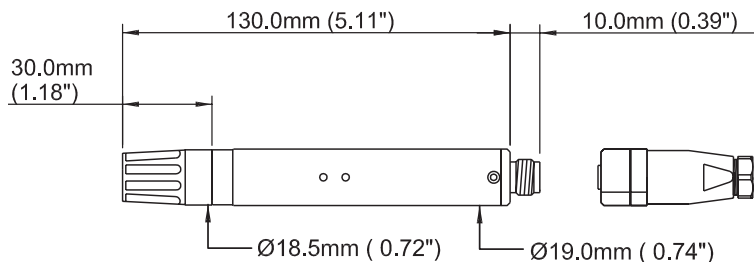
Operating conditions

Operating humidity Probe, Housing, Storage	5-98% RH (non-condensing)
Operating temperature Probe, Housing Storage	-40 to +140°F / -40 to +60°C -40 to +160°F / -40 to +70°C

Mechanical specification

Ingress protection	IP65
Housing material	Molded polymer housing
Dimensions	L=5.11", ø 0.74" / L=130, ø19mm
Weight	1.1oz / 30g without cable
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 filter with protection cap, black	A000015
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
Foil filter 1.5µm with black protection cap	A000044
Aluminum mounting flange	A000110
Stainless steel fitting (only in combination with Stainless steel housing)	A000100
Molded polymer housing mounting flange	A000150
Weather cap, wall mounted, ø3.54" / ø90.0mm for ø0.74" / ø19mm probes	A000120
Weather cap, wall mounted, ø4.72" / ø120.0mm for ø0.74" / ø19mm probes	A000125
SCI, sensor communication kit	SCI-DIG-SET

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 return

Order codes

Relative humidity and temperature probe

PC72V	5	XX	TC	A
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Output configuration	
0–1 V	5

Body configuration	
Molded polymer housing	XX

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	
-40 to +140°F / -40 to +60°C standard range	TC

Example: PC72V 5 XX TC A

Relative humidity and temperature probe PC72V, molded polymer housing, 0–1 V output, 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: PC72V_1001US_M