

PCMini52

Digital Relative Humidity and Temperature Mini Probe

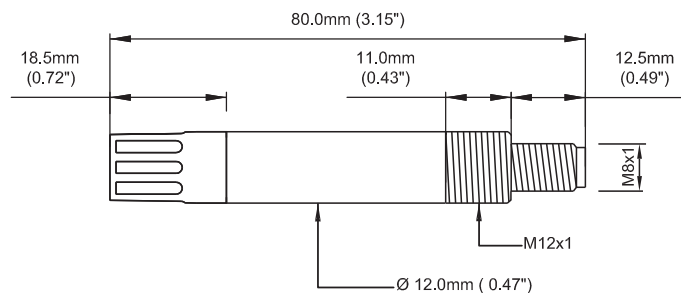
The micro processor control and multi-point calibration gives the PCMini52 RH probe excellent performance in terms of accuracy and linearity. The mini probe can provide RS485 Modbus RTU output for temperature and relative humidity, dew point, absolute humidity or wet bulb temperature.



Highlights

- RS485 Modbus RTU
- Modbus can supply % RH, calculated absolute humidity, dewpoint or wet bulb temperature and temperature
- Excellent linearity, micro processor temperature compensated
- Low power consumption, fast settling
- Small size: L = 80mm, \varnothing 12mm (L = 3.15", \varnothing 0.47")
- Stainless steel and molded polymer variants

Dimensions

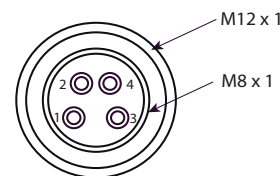


Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-20 to +80°C (-4 to +176°F)
Accuracy @ 23°C (73°F) humidity	<±2% RH (10–90% RH)
Accuracy @ 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 Specifications	
Output signal	RS485 Modbus RTU
Supply voltage	5...30 V DC
Current consumption	2 mA Modbus
CE marked	Certified
Operating Specifications	
Operating temperature	-30 to +85°C (-22 to +185°F)
Sensing element	-30 to +85°C (-22 to +185°F)
Housing	-30 to +85°C (-22 to +185°F)
Storage	-40 to +85°C (-40 to +185°F)
Mechanical Specifications	
Ingress protection	IP65 (NEMA 4 level)
Housing material	Molded polymer / stainless steel (options)
Dimensions	L=80mm, \varnothing 12mm (L=3.15", \varnothing 0.47")
Filter	PVDF / HDPE / mesh / sintered (options)
Weight	10g (0.35oz)
Electrical connections	4 pin, M8 connector

Electrical Connections

Mating Cable		Pin
Brown	Supply voltage V +	1
White	Modbus	2
Blue	V-	3
Black	Modbus	4



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

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