PC33 & 52

Analog Relative Humidity and Temperature Probe

The PC33 & 52 series offers a comprehensive range of relative humidity probes for accurate, stable and repeatable measurements. Available with analog output signals, the PC series can be installed in a wide variety of applications.



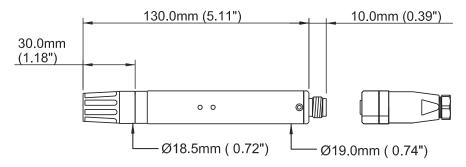
Highlights

- Low cost PC33 with analog output is designed for HVAC applications
- PC52 with analog output is designed for accurate measurement in controlled environments
- · Analog zero and span adjustment

Technical Specifications

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Performance			
Measurement range (RH)	0-100% RH		
Measurement range (T)	-20 to +80°C (-4 to +176°F)		
Accuracy @ 23°C (73°F) humidity	PC52: <±2% RH (10–90% RH) PC33: <±3% RH (30–80% RH)		
Accuracy @ 23°C (73°F) temperature	PC52: ±0.2°C (±0.36°F) PC33: ±0.3°C (±0.54°F)		
Stability - RH Sensor	±1% RH / year		
Response time – RH Sensor	<10 sec typical (for 90% of the step change)		
Electrical Specification	ctrical Specifications		
Output signal options	4–20 mA, 0 to 1, 0 to 5, 0 to 10 V		
Supply voltage	14 to 30 V DC (for 0 to 5 / 0 to 10 V output) 5 to 30 V DC (0 to 1 V & mA output)		
Operating Specificati	ting Specifications		
Operating temperature Probe, Housing Storage	-30 to +85°C (-22 to +185°F) -40 to +85°C (-40 to +185°F)		
Mechanical Specifica	tions		
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) without cable (molded polymer version)		
Electrical connections	M12		

Dimensions



Electrical Connections

Mating Cable		Pin
White	Power Supply V +	1
Yellow	Output temperature +	2
Brown	Common ground	3
Green	Output RH +	4

4-20 mA Output 2-wire				
Mating Cable		Pin		
White	Output RH +	1		
Yellow	Output temperature -	2		
Brown	Output RH -	3		
Green	Output temperature +	4		

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Michell Instruments adopts a continuous development programme which sometimes necessitates specification changes without notice. Issue no: PC33&52_97178_V4_UK_0616



