# **PF211**

## **HVAC Relative Humidity Probe**



PF211 relative humidity probes are equipped with the Hygrosmart relative humidity sensor/converter. This interchangeable module has miniaturized electronics and does not require recalibration.

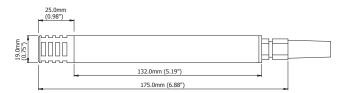
#### **Highlights**

- Designed for HVAC and Environmental Control applications
- Based on the interchangeable Hygrosmart module

## **Technical Specifications**

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Performance		
Measurement range (RH)	0–100% RH	
Measurement range (T)	-30 to +70°C (-22 to +158°F)	
Accuracy at 23°C (73°F) Humidity	<±2% RH (5–95% 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 (RH)	4–20 mA, 0–10 V	
Output signal (T)	3-wire 1/3 DIN Pt100 direct	
Supply voltage	10–32 V DC for 4–20 mA output 15–32 V DC for 0–10 V output 24 V AC ±10% (PF211B)	
Load resistance	Output 4–20 mA: Rload < (Uv-9)/0.02 Output 0–10 V: R > 1K $\Omega$	
Current consumption	20 mA max	
Operating conditions		
Operating temperature Probe, Housing, Storage	-30 to +70°C (-22 to +158°F)	
Mechanical specification		
Ingress protection	IP54	
Housing material	ABS	
Dimensions	L=175mm, ø19mm (L=6.89", ø0.75")	
Weight	184g (6.49oz)	
Electrical connections	5 or 6-wire output cable, 3m (9.8')	

#### **Dimensions**



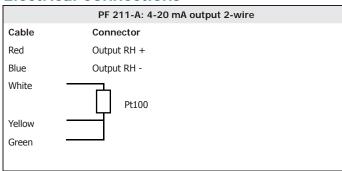
### **Accessories and Spare Parts**

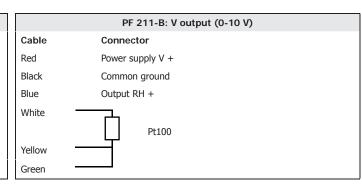
Mounting clip	2510387
Molded polymer fitting	3401135
Fixing collar	3420085
SS sintered filter	H4
ABS cap slotted with PTFE filter, white	<b>Z</b> 2
Hygrosmart with Pt100 output (RH = 0.2-1 V)	17-4-00-1
Hygrosmart with Pt100 output (RH = 0-1 V)	17-0-00-1

Issue No: PF211\_97180\_V2\_UK\_1110



#### **Electrical Connections**





#### **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 D}

Order example: PF211+A+C+Z2

Relative humidity probe PF211, output signal 4-20 mA, 3m (9.8') cable, ABS cap slotted with PTFE filter, white

