# **PF211**

## **HVAC Relative Humidity Transmitter**



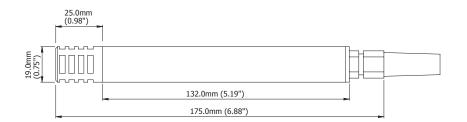
PF211 relative humidity transmitters are equipped with the Hygrosmart relative humidity sensor/converter. This interchangeable module has miniaturized electronics and does not require recalibration.

### **Highlights**

- Designed for HVAC applications
- Based on the interchangeable Hygrosmart module

Technical Specifications		
Performance		
Measurement range (RH)	0–100% RH	
Measurement range (T)	-22 to +158°F / -30 to +70°C	
RH Accuracy at 23°C/73°F	<±2% RH (5–95 % RH)	
Temperature Accuracy	±0.36°F (14 to +122°F) ±0.2°C (-10 to +50°C)	
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 VDC for 4–20 mA output 15–32 VDC for 0–10 V output 24 VAC ±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 humidity Probe, Housing, Storage	0–100% RH	
Operating temperature Probe, Housing, Storage	-20 to +160°F / -30 to +70°C	
Mechanical specification		
Ingress protection	IP54	
Housing material	ABS	
Dimensions	L=6.89", ø 0.75" / L=175mm, ø19mm	
Weight	6.5oz / 184g	
Electrical connections	5 or 6 wire output cable, 9.8ft / 3m	

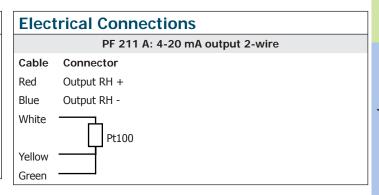
#### **Dimensions**

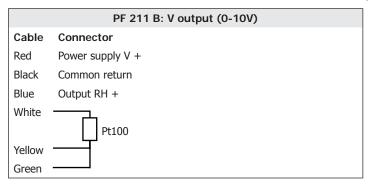




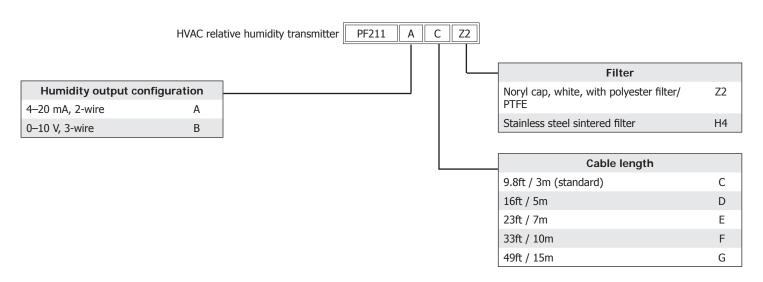
### **PF211**

Accessories and spare parts	
Hygrosmart w/Pt100 mA output	17 4 00 1
Hygrosmart w/Pt100 V ouput	17 0 00 1
Noryl cap, white, with polyester filter/PTFE	<b>Z2</b>
Stainless steel sintered filter	H4
Molded polymer housing fitting	3401135
Fixing collar	3420085
Mounting clip	2510387





#### **Order codes**



#### Example: PF211 A C Z2

Relative humidity transmitter PF211, output signal 4–20 mA for humidity, Pt100 direct for temperature, 9.8ft / 3m cable, noryl cap, with polyester filter/ PTFE.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: PF211\_1001US\_M

Process Measurement & Controls, Inc. Email: sales@pmc1.com

Web: www.michell.com/us/rh Tel: 203-792-8686 Fax: 203-743-2051 Represented by: