

## F2C-D Humidity Transmitter

- **Cost Effective Humidity Transmitter**
- **Simple, Through-Wall Installation**
- **Applications in Heating, Ventilation and Air Conditioning**
- **Provides 4-20mA Linear Output Signal**
- **10-95% RH and 10-130°F Operating Ambients**
- **Independent, Loop Powered 2-Wire Circuit**



### Description

The F2C-D is a 2-wire humidity transmitter primarily used for duct mounting in commercial HVAC installations. It operates on a 12 to 35 Vdc (unregulated) voltage. This voltage can be supplied by a model 2104 temperature controller.

The F2C-D can also be used with any instrument that accepts a 4-20mA linear output signal. It responds like a variable current source and adjusts the current as a

function of relative humidity. This 4-20mA current output can be measured and controlled by the same controller that provides the power for the F2C-D.

Factory calibrated prior to shipment, the F2C-D is simple to install through a hole drilled in a duct or wall. Operation is not significantly affected by electromagnetic induction (EMI) in the interconnecting wiring or by radio frequency interference.

### Specifications

<b>Measuring Range</b> .....	0-100% RH (max. 95% RH continuous)
<b>Accuracy</b> .....	± 2% RH from 30-95% RH at 77°F ± 3% RH from 20-100% RH at 77°F
<b>Hysteresis</b> .....	0.3% RH, Max. (4 hour cycle 20-95-20% RH)
<b>Temperature Limits</b> .....	20-130°F (-5 to +55°C)
<b>Electrical Connections</b> .....	2 Wires (Loop Powered)
<b>Power Requirements</b> .....	10-35 Vdc, 20mA
<b>Output Signal (Linear)</b> .....	4-20mA, Maximum Load 500 Ohms
<b>Calibration Adjustment</b> .....	One Potentiometer
<b>Probe Dimensions</b> .....	9.8 x 0.6" (250 x 15mm) (F2C-D)
<b>Case Dimensions</b>	
F2C-D .....	6-1/16 x 2-7/8 x 1-29/32 (154 x 73 x 48 mm)
<b>Case Material</b>	
F2C-D .....	Red/Black Plastic
<b>Weight</b>	
F2C-D .....	0.65 lbs.

### Ordering Information

Model	Description	Stock	PCN
F2C-D	Through-Wall Installed Humidity Transmitter	NS	309286