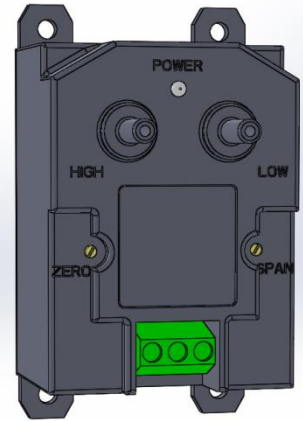


The HVAC-211 Series 4-20mA Loop Power Wide Operating Voltage



DESCRIPTION

Advanced Sensors HVAC 211 Series Transmitter incorporates a rugged silicon MEMS pressure sensor that is designed to measure ultra-low differential pressures in a wall mounted package. The two wire 4-20mA loop output is ideal for locations where the supply voltage can fluctuate. A single LED identifies proper operation.

The HVAC 211 has front side pressure ports and simple screw terminal for electrical connections making fast and easy installations for the HVAC professional.

The wall mounted package can be fastened using 4 screws in any orientation since the MEMS sensing element has minimal position sensitivity.

APPLICATIONS

- Hydraulic and Pneumatic
- HVAC
- Pumps and Compressors
- Refrigeration Systems
- Energy and Water Management

FEATURES

- LED Power Indicator
- 1/8in ID Tubing
- 2 Wire, Loop Power 4-20mA
- Easy Installation
- MEMS Stability
- 1% Accuracy
- Zero Position Stability
- Wide Operating Voltage
- Zero & FS Potentiometer Adjustments

SPECIFICATIONS	Symbol	Min	Typical	Max	Unit	Note
Operating Conditions						
Supply Voltage		12	24	30	V	1
Operating Temperature		-25		70	°C	
Compensated Temperature		-10		60	°C	
Accuracy		-1.0		+1.0	%FS	1,2
Thermal Errors		-0.020		+0.020	%FS/°F	1,3
Long Term Stability		-0.20		+0.20	%FS/Year	1
Load Resistance		250Ω at 24Vdc Typical				

SPECIFICATIONS	Symbol	Min	Typical	Max	Unit	Note
Absolute Maximum Conditions						
Supply Voltage				32	V	
Storage Temperature		-40		85	°C	
Over Pressure, Burst						
Ranges 1,2 inH2O	62,125 Pa			2	PSI	
Ranges 4,6,10 inH2O	100, 150, 250 mmH2O			5	PSI	
Ranges 20 inH2O	500 mmH2O			10	PSI	
Ranges 40 inH2O	1000 mmH2O			21	PSI	
Media Compatibility		CDA, Non Ionic, Non Corrosive Gases				

Reference Conditions: Vsupply: 24.00Vdc, Ta=25° C. Port HIGH=Positive Pressure.

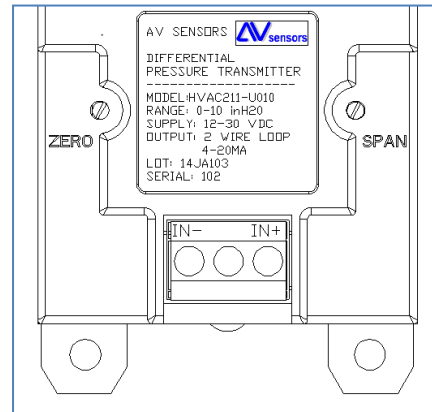
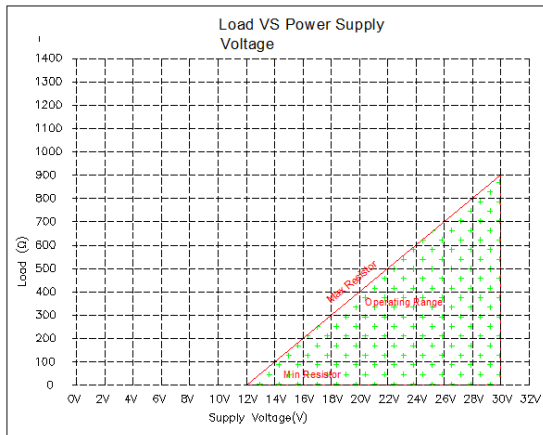
1. All specification at reference conditions unless otherwise noted.
2. ½ Terminal Base Non Linearity (Measured at 0, 50% and 100% FS).
3. Maximum deviation over the compensated temperature range expressed as percentage of reading at 25° C.

SUPPLEMENTAL

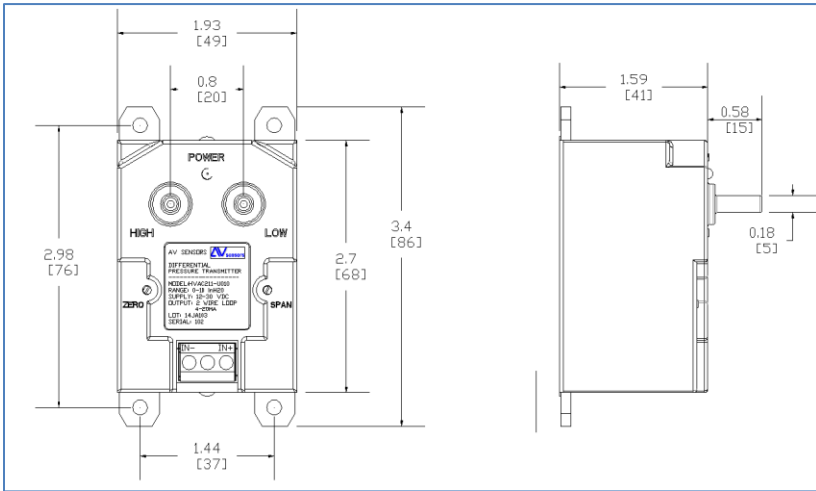
ELECTRICAL CONNECTIONS

Table 1. Load Resistance vs Supply Voltage

Figure 1. Electrical Connections



MECHANICAL DIMENSIONS in [mm]



PART NUMBERING FOR ORDERS

Series	Output	Pressure Range	Pressure Units	Options
HVAC-211	U=Unidirectional	062 125 **	PA = Pascal	-LMW Customization
	B = Bidirectional	001 002 004 006 010 020 040 **	IW = inH2O Column	-TR Individual Test Report
		025 050 100 150 250 500 1000 **	MW = mmH2O Column	

Part Number Example: HVAC 211-U025MW 0-25 mmH2O Unidirectional

****Other ranges available upon Request.**

WARRANTY

Pressure sensors have a limited one-year warranty to the original purchaser. AVSensors will repair or replace, at its option, without charge those items it finds defective. This is the buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall AVSensors be liable for consequential, special, or indirect damages. This warranty does not apply to units that have been modified, misused, neglected or installed where the application exceeds published ratings. Specifications may change without notice. The information supplied is believed to be accurate and reliable as of this printing, however, we assume no responsibility for its use.