



Industrial differential

Pressure Sensor

AV209

OVERVIEW

AV209 industrial pressure sensor is a standard and most popular sensor applied in differential pressure measuring. A high sensitivity silicon pressure chip is employed in the sensor. The housing is filled with oil for pressure transmission. The AV209 sensor is designed for industry application with perfect long term stability.

FFATURE

- * Piezoresistive silicon chip employed
- * Perfect long term stability
- * MEMS Technology
- * CE certificate
- * Sensor diameter: 19mm

APPLICATIONS

- * Pressure Instrumentation
- * Water Level
- * Boiler Controls
- * Pneumatics
- * HVAC/R Systems
- * Excellent low pressure application

KANEN

Performance@25°C (77°F)

Accuracy* $<\pm 0.25\%$ typ. Stability (1 year) $<\pm 0.3\%$ typ.

Oil filling Silicone oil (typical) fomblin oil available for sanitary application

Output	Excitation	Zero Offset	Span Tolerance
	1.5mA (Typical)		
10mV/V**	5VDC	<±2mV	<±2mV
	10VDC		

Bridge Resistance Max | Unit 2600 | 5500 | ohm Insulation Resistance >100MΩ/250VDC

Physical Description

Wetted Material 316L, Hastelloy (Optional)

NBR, Viton O-ring

200mm long hook up wires Wire

Weight 36g (approx)

Environmental Data

Temperature

-40 to 125°C Operating -40 to 125°C Storage

Thermal Limits

Compensated Range 0-60°C (typical)

TC Zero $<\pm 0.02\%$ of FS /°C(≥ 100 kPa) $<\pm0.03\%$ of FS /°C(<100kPa)

 $<\pm 0.02\%$ of FS /°C(≥ 100 kPa) TC Span

 $<\pm0.03\%$ of FS /°C(<100kPa)

Other

Vibration 20g (20-2000HZ)

^{*} Accuracy includes non-linearity, hysteresis & non-repeatability

^{** 10}VDC, Maximun



Ordering Method

For Example:-



AV209

000





























•	Series	Code	Description
U	series	AV209	

	Pressure	А	kPa
2	Unit	Р	PSI

		000	Standard Pressure Range (3-Code)		
		0d1	0.1		
3	Pressure Range	Example	2d5	2.5	
			018	18	
			725	725	
			d	Decimal Place	

4	Pressure Type	D	Differential
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5	Header Thread	U	Weldable
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6	Wettec	L	316L-SS
O	Materic	ıl H	Hastelloy C276

7 Output	9	10mV/V**
Output	С	8mV/V

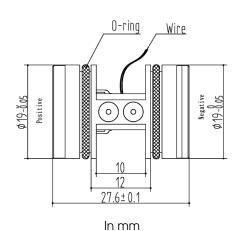
8	Electrical Connection		Н	Hookup Wire
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9	Options	000	No Special Options (3-Digit Code)
A	Code	006	Fomblin oil Filled

Pressure Range						
Pressure Range	35kPa, 70kPa, 100kPa, 250kPa, 400kPa, 600kPa, 1MPa, 1.6MPa, 2.5MPa					
	Range	Positive Overpressure	Negative Overpressure			
	35kPa	70kPa	35kPa			
	70kPa	150kPa	70kPa			
	100kPa	200kPa	100kPa			
Over Pressure	250kPa	500kPa	250kPa			
	400kPa	800kPa	400kPa			
	600kPa	1200kPa	600kPa			
	1Мра	2Мра	1Мра			
	1.6Mpa	3.2Mpa	1Мра			
	2.5Mpa	5Мра	1Мра			

** 10VDC, Maximun

DIMENSIONAL DATA



Wire	Connection
red	excitation+
blue	excitation-
yellow	output+
white	output-