



Monocrystalline Silicon Differential Pressure Transmitter

AV720

OVERVIEW

AV720 Monocrystalline Silicon Differential Pressure Transmitter uses high stability differential pressure chip.The monocrystalline silicon design achieves internationally leading high-precision, ultra-high overload performance and superior stability. The embedded signal processing module achieves a perfect combination of static pressure and temperature compensation, achieving high accuracy and long-term stability over a wide range of static pressure and temperature changes.

The AV720 Monocrystalline Silicon Differential Pressure Transmitter uses voltage power supply, and convert the measured differential pressure value into 0.5-4.5V Ratiometric, 0-5VDC, 4~20mA or 4~20mA+RS485-MODBUS protocol current signal.

BENEFITS

- * Imported ultra-high stability differential pressure die
- * High accuracy and excellent stability
- * Static pressure error within ±0.1%FS/10MPa
- * Patented double overpressure protection diaphragm design
- * Unilateral overpressure limit of up to 40MPa
- * High accuracy temperature sensor inside
- * Intelligent temperature compensation
- * Positive and negative pressure completely symmetrical, no O-ring inside
- * All welded integrated structure

APPLICATIONS

- * Tank Level Monitoring
- * Flow Measurements
- * Filter Clogging Monitoring



Performance@21°C (70°F)

Accuracy* Stability (1 year) $<\pm 0.1\%$ FS Pressure Range Lowest Pressure Range Highest 0-450 PSID Response time **Reverse Polarity Protection Yes** Overpressure 2500PSI Maximum Static Pressure 5800PSI

0.5% FS, MAX 0-8 inches H2O ≤ 1 ms (up to 90%FS)

Output	Excitation	Zero Offset	Span Tolerance	
0-5V				
4-20mA	10-28VDC	<10.5% of ES	<±1% of FS	
RS485 MODBUS		<±0.3% 01 F3		
0.5-4.5V Ratiometric	5VDC			

* Accuracy includes non-linearity, hysteresis & non-repeatability, <0.5% FS available.

Physical Description

Wetted Materials

Weight **Electrical Connections** 316L Stainless Steel, Hastelloy C276 diaphragm optional 1000g Cable, M12x1, Din43650A

Environmental Data

Temperature Operating Storage

-40 to 85°C -40 to 125°C

Thermal Limits Compensated Range TC Zero TC Span

-20°C to 80°C <+1.5% FS <±1.5% FS

Other Shock Vibration **EMI/RFI** Protection Rating

100g (11mS) 20g (20-5000HZ) YES IP65

	Ordering Method For Example:-					AVER INSTRUME			
	AV7	'20	H C)01	DI	Ξ	L	4	A 000
			2	3		5	6	7	8 9
0	Series	Code 720	C)escriptio	า	6	Wetted Material	L	316L-SS Hastelloy C276
2	Pressure Unit	Code H P	Inches H2O PSI	Descriptio	n	1	Output	0 4 8	0-5V 4-20mA 0.5-4.5V Ratiometric
		001	lpsid	008	8Inches H2O]		M	RS485 MODBUS
3	Pressure	005 015	5psid 15psid	028 055	28Inches H20 55Inches H20	8	Electrical Connection	Q R	1m cable 2m cable
Ŭ	Range	040 150 450	40psid 150psid 450psid	083 110 208	83Inches H20 110Inches H20 208Inches H20	 >		S Y	3m cable M12x1 - 4P
				200	2001101031120		Options	Code	Description
4	Pressure Type	D	L Differential	Descriptio	N		Code	000	No Special Options (3-Digit Code)
5	Header Thread	D E	1/2 NPT Female 1/4 NPT Female						
DI	DIMENSIONAL DATA								



Profile dimensions(unlabeled tolerance ± 0.1 mm)