

WET-WET

Differential Pressure Transmitter

AV700

OVERVIEW

AV700 series is media isolated differential pressure transmitters consists of both isolation membrance differential pressure sensor and intearated circuits. It has characteristics of high precision, good stability, high reliability and good sensibility. It has built-in high-performance microprocessor (MCU) which can correct nonlinearity and compensate temperature drift to measure and control for liquid and gas.

BENEFITS

- * Low Static and Thermal Errors
- * Wide Operating Temperature Range
- * Compact Size
- * CE Approved

APPLICATIONS

- * Pressure Instrumentation
- * Water Level
- * Boiler Controls
- * Pneumatics
- * HVAC/R Systems
- * Filtration



Performance@25°C (77°F)

Accuracy* Stability (1 year) Pressure Range Common Line Pressure Burst Pressure Pressure Cycle

<±0.4% typ. <±0.25% typ. Up to 300 PSI 500PSI 3X Full Scale 4 million cycles

Output	Excitation	Zero Offset	Span Tolerance		
0-5V					
1-5V	10-30VDC	<±0.5% of FS	<±1% of FS		
4-20mV		<±0.3% 01 F3			
0.5-4.5V Ratiometric	5VDC typ.				

Reverse Polarity Protection Yes

* Accuracy includes non-linearity, hysteresis & non-repeatability

Physical Description

Wetted Materials Weight **Electrical Connections**

316L-SS 150g Packard

Environmental Data

Temperature Operating Storage

Thermal Limits

TC Zero

TC Span

-40 to 105°C -40 to 125°C

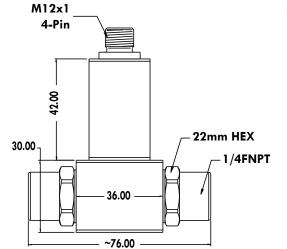
Compensated Range -0°C to 70°C (32 to 158°F) <±1.5% FS <±1.5% FS

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

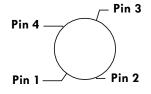
100 (11mS) 20g (20-5000HZ) YES IP65

	For Ex	_		ng Meth	od					ļ	AVER N STRUM	S
	AV7	00	А	000	D	F	L	0	С	000		٦
			2	3	4	5	6	7	8	9	-	
0	Series	Code 700		Descriptic	n	6	Wetted Material	L	316L-	SS		
2	Pressure Unit	Code A	kPa	Descriptic	n	7	Output	0 1 4	0-5V 1-5V 4-20r	nA		
		Р	PSI					8	0.5-4	.5V Ratiome	tric	
3	Pressure Range	000 005 010 030 100	different 5psid 10psid 30psid 100psid	tial		8	Electrical	C D E P	Deut Deut Pack	3650C Conn sch DT04-3P sch DT04-4P ard Metripa		
4	Pressure Type	Code D	Differen		Description			R R S	1m Cable 2m Cable 3m Cable			
		4	1/4 MNF					Y Z	_	(1 - 4P (1 - 5P		
5	Header Thread	E F Q	1/4 NPT 1/8 MNF			9	Options Code	Code 000	-		ons (3-Digit Code	
								003		'SI Transient Fomblin Oil	Pressure on Singl Filled	le

DIMENSIONAL DATA







2