

Mid-West[®] Instrument

Differential Pressure Transmitter

Range 0-5 PSID (0- 0.35 Bar) thru 0-300 PSID (0-20 Bar)

Product Features

- Use with Liquid or Gas media compatible with material of construction
- Full stainless steel construction, compact size, easy installation
- Laser welded, fully-sealed construction: NEMA 4X (IP65)
- Utilizes Piezoresistive Differential Pressure Sensor Isolated Diaphragm
- Zero and Span Adjustable
- CE Certified to EMI / EMC Directive
- LCD or LED display available upon request
- (Available with DIN Connector & 4-20mA Output Only)
- Maximum Overpressure (+) Hi-Side equals 2 times specified DP range
- Maximum Overpressure (-) Low-Side is equal to specified DP range
- Maximum Static Pressure 2,900 PSI

It is recommended to install a 3 valve manifold between point of measurement and the transmitter.

Materials of Construction

- **Pressure Port & Housing:** 321 Stainless Steel
- **Diaphragm:** 316L Stainless Steel
- **O-ring:** Viton
- **Process Connections:** 1/4" Female BSPP (STD)
- **Fill liquid:** Silicon Oil

Available Electrical Specifications:

- **Power Supply:** 2-Wire 15~28 VDC
2-Wire 18~28 VDC, 2-Wire 20-28 VDC,
3-Wire 15~28 VDC
- **Output Signals:** 2-Wire 4~20mADC,
3-Wire, 0~5VDC, 1~5VDC, 0~5VDC
0~10VDC, 0-10mADC and 0-20m ADC
- **Electrical Connections:**
Din Plug 43650 or 1.5m 4-pin cable
- **Response Time:** (10%~90%) ≤1ms
- **Insulation Resistance** 100MΩ, 50VDC



LCD or LED
3-1/2 Digit Display



1/4" BSPP x 1/4" FNPT
1/4" BSPP x 1/2" FNPT
S.S. Adapters Available

Description	Range	% / Unit	
Accuracy (LIN, HYS, & REP.)	5~300 PSID	0.50% Full Scale	
Zero Thermal Drift	0~15 PSID	±.03% Full Scale / °C Typ.	
	30~300 PSID	±.02% Full Scale / °C Typ.	
FS Thermal Drift	0~15 PSID	±.03% Full Scale / °C Typ.	
	30~300 PSID	±.02% Full Scale / °C Typ.	
Stability	≤ 30 PSI	0.50%	%FS / Year
	≤ 30 PSI	0.20%	
Static Pressure Effect	±0.05%	FS, ea. 15 PSI	
Compensation Temperature	0~50	°C	
Operating Temperature	-10~80		
Storage Temperature	-40~120		

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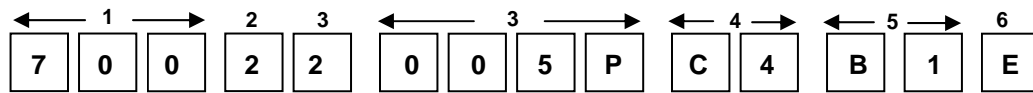
MODEL SPECIFICATIONS

Example Model Number Sequence: 700-22-005P-C4-B1-E

321 Stainless Steel Pressure Port & Housing, 316 Stainless Steel Diaphragm
 Viton O'Rings, ¼" Female BSPP Connections, DIN 43650/IP65 Plug-In Type Connector
 Electrical Input & Output: 2-wire 15~28VDC / 4~20mADC
 Accuracy ±0.5% Full Scale

Range: 0-5 PSID (0-0.35 Bar) to 0-300 PSID (0-20 Bar)

Gauge Body and Internal components are considered wetted parts.



Basic Model

1	Description
700	Differential Pressure Transmitter
710	Differential Pressure Transmitter with LCD Readout (Available with DIN Connector & 4-20mA Output only)
715	Differential Pressure Transmitter with LED Readout (Available with DIN Connector & 4-20mA Output only)
2	Materials of Construction
22	Pressure Port & Housing = 321 Stainless Steel / Diaphragm = 316L Stainless steel
3	Differential Pressure Range
PSID = P	5, 10, 15, 30, 50, 100, 150 & 300
BAR = B	.35, .70, 1.0, 2.0, 3.5, 7.0, 10.0 & 20.0
kPa = K	35, 70, 100, 200, 350 & 700
4	Process Connections
C4	1/4" Female BSPP (STD) Optional adapters listed below
5	Electrical Connections
B1	DIN 43650/IP65 Plug-In Type
B2	Cable Connection / Standard Length 1.5m
6	Power Supply Input / Output
E	2-Wire 15-28 VDC / 4-20mADC / LCD Display 18-28 VDC / LED Display 20-28 VDC
F	3-Wire 15-28 VDC / 1-5 VDC
J	3-Wire 15-28 VDC / 0-5 VDC
Q	3-Wire 15-28 VDC / 0-10mADC
U	3-Wire 15-28 VDC / 0-20mADC
V	3-Wire 15-28 VDC / 0-10 VDC
316 S.S. Adapters (Includes Viton O'ring)	
113319	¼" Male BSPP x ¼" FNPT 316 S.S. Adapter
113320	¼" Male BSPP x ½" FNPT 316 S.S. Adapter