# Mid-West<sup>®</sup> Instrument

## **Differential Pressure Transmitter**

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

Mid-West Instrument wet/wet differential pressure transmitter utilizes a piezoresistive differential pressure sensor sensing element with stainless steel isolated diaphragm. Silicon oil is filled in between die and two diaphragms. The measured differential pressure is transmitted onto the die through the diaphragm and silicon oil. The signal output generated by the piezoresistive bridge sensor is amplified into a useable voltage or 4-20 mA output as specified by customer. 1 Year Limited Warranty.

#### **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

### Materials of Construction

- Pressure Port & Housing: 321 SS
- Diaphragm: 316L Stainless Steel
- O-ring: Viton
- Process Connections: 1/4" Female BSPP
- 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 4-20 mA 3-Wire, 0-5 VDC, 1-5 VDC, 0-5 VDC 0-10 VDC, 0-10 mA DC and 0-20 mA DC
- Electrical Connections: Din Plug 43650 or 1.5m 4-pin cable
- Response Time: (10%-90%) ≤1ms
- Insulation Resistance 100 MΩ, 50 VDC

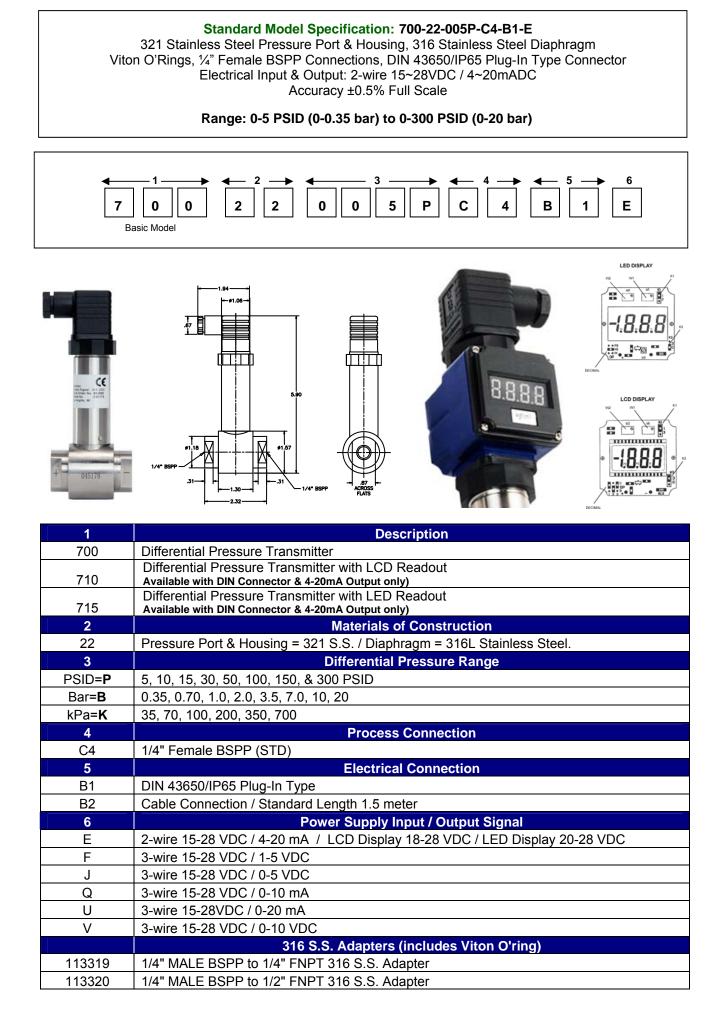


Transmitter B Output Signal 0-547 Serial No. 0457 Burling Heights. MI

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	
	0-15 PSID	±.03% Full Scale / °C Typ.	
Zero Thermal Drift	30-300 PSID	±.02% Full Scale / °C Typ.	
	0-15 PSID	±.03% Full Scale / °C Typ.	
FS Thermal Drift	30-300 PSID	±.02% Full Scale / °C Typ.	
	<u>&lt;</u> 30 PSI	0.50%	
Stability	<u>&lt;</u> 30 PSI	0.20%	% Full Scale / Year
Static Pressure Effect	±0.05%		Full Scale ea. 15 PSI
Compensation Temperature	0 - 50°C		
Operating Temperature	-10 - 80°C		°C
Storage Temperature	-40 - 120°C		1



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