

# Mid-West<sup>®</sup> 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.
- 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
- 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
- Manufactured in China.

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:** ¼" 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



¼" BSPP x ¼" FNPT  
¾" BSPP x ½" FNPT  
**S.S. Adapters Available**

| Description                    | Range       | % / Unit                   |            |
|--------------------------------|-------------|----------------------------|------------|
| Accuracy<br>(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

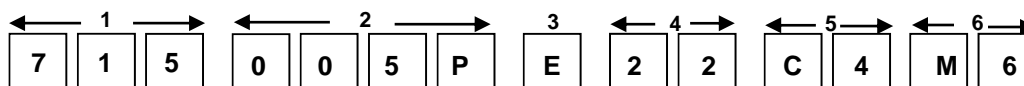
### Example Model Number Sequence: 715-005P-E-22-C4-M6

321 Stainless Steel Pressure Port & Housing, 316 Stainless Steel Diaphragm  
Viton O'Rings, ¼" Female BSPP Connections, DIN 43650/IP65 Plug-In Type  
4 Digit LED Digital Indicator (4MA-20mADC only)

**Electrical Input & Output:** 2-wire 20~28VDC / 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        | <b>Differential Pressure Range</b>   |
| 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  |
| 3        | <b>Power Supply Input / Output</b>   |
| 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  |
| 4        | <b>Materials of Construction</b>   |
| 22       | Pressure Port & Housing = 321 Stainless Steel / Diaphragm = 316L Stainless steel                       |
| 5        | <b>Process Connections</b>   |
| C4       | 1/4" Female BSPP (STD) Optional adapters listed below  |
| 6        | <b>Electrical Connections</b>  |
| B1       | DIN 43650/IP65 Plug-In Type  |
| B2       | Cable Connection / Standard Length 1.5m  |
| M6       | 4 Digit LED Digital Indicator (only for 4MA-20mADC)  |
| M7       | 4 Digit LCD Digital Indicator (only for 4MA-20mADC)  |
|          | <b>316 S.S. Adapters (Includes Viton O'ring)</b>   |
| 113319   | ¼" Male BSPP x ¼" FNPT 316 S.S. Adapter (Pair)   |
| 113320   | ¼" Male BSPP x ½" FNPT 316 S.S. Adapter (Pair)   |