



# Pressure Sensors and Transducers

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## Precision Pressure Transducer Comparison

| FEATURES                                  | PPT                                                                                                               | PPT2                                                                                                                                                                                                                            |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Digital Error Band Over Temperature | ±0.10% FS MAX, ±0.05%FS TYP                                                                                       | ±0.075% FS MAX, ±0.0375 FS TYP                                                                                                                                                                                                  |
| Total Analog Error Band Over Temperature  | ±0.12% FS MAX, ±0.06%FS TYP (12-bit DAC)                                                                          | ±0.09% FS MAX, ±0.045 FS TYP (16-bit DAC)                                                                                                                                                                                       |
| Operating Temp Range                      | -40 to 85°C                                                                                                       | Standard: -40 to 85°C, Extended: -55 to 110°C                                                                                                                                                                                   |
| Storage Temp Range                        | -55 to 90°C                                                                                                       | Standard: -50 to 100°C, Extended: -60 to 125°C                                                                                                                                                                                  |
| Display Resolution                        | e.g. 20 psia: XX.XXX                                                                                              | e.g. 20 psia: XX.XXXX **                                                                                                                                                                                                        |
| Digital Noise Resolution                  | 0.005%FS at 120 readings/sec                                                                                      | 0.005%FS at 250 readings/sec                                                                                                                                                                                                    |
| Analog Resolution                         | 1.22 mV steps (12 bits)                                                                                           | 0.15 mV steps, typical (15+ bits)                                                                                                                                                                                               |
| Maximum Sample Rate                       | Up to 120 Readings/Sec                                                                                            | Up to 1000 Readings/Sec                                                                                                                                                                                                         |
| Minimum Response Delay                    | 17 ms                                                                                                             | 2 ms                                                                                                                                                                                                                            |
| Baud Rate                                 | Up to 28,800                                                                                                      | Up to 115,200                                                                                                                                                                                                                   |
| RF Susceptibility                         | EN 61326-1:2006, Basic Level<br>3 V/m (80 MHz to 1 GHz)<br>3 V/m (1.4 GHz to 2 GHz)<br>1 V/m (2.0 GHz to 2.7 GHz) | EN 61326-1: 2006, Industrial Level<br>10 V/m (80 MHz to 1 GHz)<br>3 V/m (1.4 GHz to 2 GHz)<br>1 V/m (2.0 GHz to 2.7 GHz)<br>RTCA/DO-160F, Section 20.4, Category R<br>10 V/m (100 MHz to 400 MHz)<br>150 V/m (400 MHz to 8 GHz) |
| RoHS Compliant                            | No                                                                                                                | Yes                                                                                                                                                                                                                             |
| Electrical Connector                      | Plastic and Metal                                                                                                 | Metal only                                                                                                                                                                                                                      |
| Power Supply                              | 5.5 to 30 VDC                                                                                                     | 6 to 34 VDC (with reverse polarity protection)                                                                                                                                                                                  |
| Pressure Connections                      | Brass                                                                                                             | Brass and SST                                                                                                                                                                                                                   |
| Size (excluding connector and fittings)   | 2.45 x .975 x 1.80 in                                                                                             | 2.47 x .97 x 1.56 in                                                                                                                                                                                                            |
| Weight (excluding fittings)               | 5.0 oz. (142gm)                                                                                                   | 4.4 oz. (125 gm)                                                                                                                                                                                                                |

\*\* 1 extra digit to right of decimal place for all pressure ranges and display units. Extra digit may be turned off by user for PPT compatibility

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