**The Series 646B Differential Pressure Transmitter** is designed to be used with clean, dry air and other non-corrosive gases. Each unit features a flame retardant enclosure and a unique design which is suitable for circuit board mounting. Series 646B measures differential pressure at an accuracy of ±2.0% FS down to 0.5 in w.c. The transmitter contains a stainless steel sensor that provides resistance against corrosion combined with excellent performance and long term stability. The Series 646B transmitter features excellent stability, low hysteresis, accurate operation over a broad temperature range, and exceptional insensitivity to vibration. These features make the transmitters perfect for VAV systems, filter monitoring, HVAC fan control, building pressurization, and leak detection systems.

**SPECIFICATIONS**

- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** 302 SS, glass, nickel, polyethylene, acrylic and ABS.
- **Accuracy:** ±2.0% FS* at room temperature.
  *RSS (Root Sum Square) includes non-linearity, hysteresis and non-repeatability.
- **Temperature Limits:**
  - Operating: 23 to 170°F (-5 to 77°C);
  - Storage: -6 to 185°F (-21 to 85°C).
  
  - Compensated Temperature: 32 to 170°F (0 to 77°C).
- **Zero/Span Shift:** < 0.05% FS/F (< 0.09% FS/C).
- **Warm-Up Shift:** ±0.1% FS.
- **Pressure Limits:** ±10 psi (69 kPa).
- **Output Signal:** 0.5 to 4.5 VDC ratiometric.
- **Output Impedance:** < 5.0 Ω.
- **Supply Voltage:** 5.0 ±0.25 VDC.
- **Response Time:** Approximately 10 ms.
- **Electrical Connection:** Three stripped, color-coded lead wires, 26 AWG, approximately 3.5˝ length.
- **Process Connections:** 3/16˝ OD barbed fitting for 1/8˝ ID push-on tubing.
- **Housing:** PBT+ABS alloy.
- **Weight:** 3.1 oz (90 g).

<table>
<thead>
<tr>
<th>Model</th>
<th>Range in w.c.</th>
<th>Price</th>
</tr>
</thead>
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<tr>
<td>646B-03</td>
<td>0 to 0.5</td>
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<td>646B-04</td>
<td>0 to 1</td>
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<td>646B-05</td>
<td>0 to 2.5</td>
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<td>646B-06</td>
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<td>646B-07</td>
<td>0 to 10</td>
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* Items are subject to Schedule B discounts.