Omicron’s APR2000D SMART DP differential pressure transmitter provides a kind of reliable measuring way. It is used for measuring differential pressure (or pressure), level, density of liquid, gas or steam and convert the value of above into current signal output or digital protocol output. The pressures are directly applied to the isolating diaphragm that provide isolation and resistance against process fluid corrosion. Being micro processor based, the electronic circuit is extremely versatile and accurate. Combined with the sensor precision, it provides a high accuracy and high rangeability. Transmitter performance is improved by continuous monitoring of the temperature and corresponding compensation. A local display permits easy reading of data.

**Special Features:**
- Temperature Compensated
- HART Communication
- 90° Horizontal Tilt Display
- Explosion Proof with Intrinsic Safety
- Display of Pressure, Temperature and Current
- 0 - 100% Bar Graph Indication
- Zero Transfer, Range Setting Through Keypad

**Overview:**

Omicron’s APR2000D SMART DP differential pressure transmitter provides a kind of reliable measuring way. It is used for measuring differential pressure (or pressure), level, density of liquid, gas or steam and convert the value of above into current signal output or digital protocol output. The pressures are directly applied to the isolating diaphragm that provide isolation and resistance against process fluid corrosion. Being micro processor based, the electronic circuit is extremely versatile and accurate. Combined with the sensor precision, it provides a high accuracy and high rangeability. Transmitter performance is improved by continuous monitoring of the temperature and corresponding compensation. A local display permits easy reading of data.

**Performance Specifications:**
- **Media Compatibility:** Liquids, Gases and Steam
- **Measuring Ranges:** 10mbar ~ 400 bar
- **Output Signal:** 4 - 20mA, 2 Wire, HART Superimposed
- **Power Supply:** 12 - 45V DC
- **Operating Temperature:** -40°C ~ 125°C
- **Operating Humidity:** 5 ~ 95% RH
- **Standard Accuracy:** 0.075% of F.S
- **Optional Accuracy:** 0.06% of F.S
- **Premium Accuracy:** 0.04% of F.S
- **Zero & Span Setting:** Onboard Keypad
- **Range Setting:** Onboard Keypad
- **Process Connection:** 1/4” NPT(F); Optionally 1/2” NPT(F) available
- **Static Pressure:** 40 bar, 100 bar, 250 bar and 320 bar
- **Zero Elevation:** On Site through Onboard Keypad
- **Zero Suppression:** On Site through Onboard Keypad
- **Units Available:** kPa, in H₂O, mHg, ft H₂O, mmH₂O, mmHg, psi, bar, mbar, Pa, MPa
- **Enclosure Housing:** Die cast Aluminium
- **Mounting:** Mounting Bracket for 2” Pipe
- **Fill Fluid:** Silicon DC 200 / 704
- **Diaphragm:** AISI 316LSS / Monel / Hastalloy C / Tantalum
- **Flange / Adaptor:** AISI 316LSS / Monel / Hastalloy C / Carbon Steel
- **Drain / Vent:** AISI 316LSS / Monel / Hastalloy C
- **Wetted O-Ring:** Viton / Buna N
- **Seal O-Ring:** Viton / Buna N
- **Bolts, Nuts:** AISI316SS / Carbon Steel
- **Agency Approval:** CE, ATEX
SMART DIFFERENTIAL PRESSURE TRANSMITTER

HOW TO ORDER

Basic Model: APR2000D

Differential Pressure Range:

2  0 ~ 0.125 - 1.5 kPa
3  0 ~ 1.5 - 7.5 kPa
4  0 ~ 6.5 - 40.0 kPa
5  0 ~ 35.0 - 200.0 kPa
6  0 ~ 135.0 - 1000 kPa
7  0 ~ 345.0 - 2000 kPa
8  0 ~ 1170 - 6890 kPa
9  0 ~ 3450 - 20680 kPa
0  0 ~ 6890 - 41370 kPa

Output:

E  4 - 20mA DC
S  4 - 20mA DC, 2 Wire, HART Superimposed

Material of Construction:

<table>
<thead>
<tr>
<th>Flange</th>
<th>Drain / Vents</th>
<th>Diaphragm</th>
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<tbody>
<tr>
<td>22</td>
<td>AISI 316 SS</td>
<td>AISI 316LSS</td>
</tr>
<tr>
<td>23</td>
<td>AISI 316 SS</td>
<td>Hastealloy C</td>
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<tr>
<td>24</td>
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<td>Monel</td>
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<td>25</td>
<td>AISI 316 SS</td>
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</tr>
<tr>
<td>44</td>
<td>Monel</td>
<td>Monel</td>
</tr>
</tbody>
</table>

Options:

M1  0 - 100% Analogue Indicator
M3  4 1/2 LCD Display
B1  2” Pipe Mounting, Angle Bracket
B2  Wall Mounting, Angle Bracket
B3  2” Pipe Mounting, Carbon Steel

Ordering Example: APR2000D-SS-22-M3-B3