The Series EDPS Adjustable Differential Pressure Switch is designed for pressure, vacuum, and differential pressures. The dual scaled adjustment knob in inches water column and pascals allows changes to the switching pressure to be made without a pressure gage. The EDPS is available with settings from 0.08 in w.c. (20 Pa) up to 16 in w.c. (4000 Pa). The silicone diaphragm and PA 6.6 body make the series EDPS ideal for use with air and other noncombustible gases. The compact size, adjustment knob and meeting the UL508 standard, make the EDPS the perfect choice for H.V.A.C. applications.

**APPLICATIONS**
- Monitoring air filters and ventilators
- Monitoring industrial cooling-air circuits
- Overheating protection for fan heaters
- Monitoring flows in ventilation ducts
- Controlling air and fire-protection dampers
- Frost protection for heat exchangers

**SPECIFICATIONS**
- **Service:** Air and noncombustible, compatible gases.
- **Materials:** Diaphragm material: Silicone; Housing material: Switch body: PA 6.6; Cover: Polystyrene; Materials UL94 V0 rated.
- **temperature Limits:** Process and ambient temperature from -4 to 140°F (-20 to 60°C).
- **Pressure Limits:** Max. operating pressure: 40 in w.c. (10 kPa) for all pressure ranges.
- **Switch Type:** Single-pole double-throw (SPDT).
- **Electrical Rating:** Max. 1.0 A res./0.4 A ind./250 VAC, 50/60 Hz; Max. switching rate: 6 cycles/min.
- **Electrical Connections:** Push-on screw terminals. 1/2˝ NPT connection. M20x1.5 with cable strain relief optional.
- **Process Connections:** 5/16˝ (7.94 mm) outside diameter tubing, 1/4˝ (6.0 mm) inside diameter tubing.
- **Enclosure Rating:** NEMA 13 (IP54).
- **Mounting Orientation:** Vertically, with pressure connections pointing downwards.
- **Mechanical Working Life:** Over 106 switching operations.
- **Weight:** 5.6 oz (160 g).
- **Agency Approvals:** CE; ETL approved to UL508 and CSA C22.2#14, RoHS.

**Table:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Set Point Range in w.c. (Pa)</th>
<th>Approx. Dead Band @ Min Set Point in w.c. (Pa)</th>
<th>Approx. Dead Band @ Max Set Point in w.c. (Pa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPS-08-1-N</td>
<td>0.08 to 1.20 (20-300)</td>
<td>0.04 (10)</td>
<td>0.05 (12)</td>
</tr>
<tr>
<td>EDPS-04-1-N</td>
<td>0.12 to 1.60 (30-400)</td>
<td>0.06 (15)</td>
<td>0.09 (23)</td>
</tr>
<tr>
<td>EDPS-03-1-N</td>
<td>0.20 to 2.00 (50-500)</td>
<td>0.08 (20)</td>
<td>0.09 (23)</td>
</tr>
<tr>
<td>EDPS-05-1-N</td>
<td>0.80 to 4.00 (200-1000)</td>
<td>0.4 (100)</td>
<td>0.5 (130)</td>
</tr>
<tr>
<td>EDPS-06-1-N</td>
<td>2.00 to 10.00 (500-2500)</td>
<td>0.6 (150)</td>
<td>0.8 (200)</td>
</tr>
<tr>
<td>EDPS-07-1-N</td>
<td>4.00 to 20.00 (1000-5000)</td>
<td>1.0 (250)</td>
<td>1.4 (350)</td>
</tr>
</tbody>
</table>

**Note:** For optional M20 cable gland connection, change -1-N to -2-N.

**ACCESSORIES**
- A-288, “L” type metal mounting bracket with screws
- A-289, “S” type metal mounting bracket with screws
- A-480, Plastic static pressure tip
- A-481, Installer kit. Includes 2 plastic static pressure tips and 7’ (2.1 m) of PVC tubing
- A-489, 4” Straight Static Pressure Tip with Flange

See page 587 for process tubing options.