The Series 3500 Smart Differential Pressure Transmitter is a microprocessor-based high performance transmitter, which has flexible pressure calibration, push button configuration, and programmable using HART® Communication. The Series 3500 is capable of being configured for differential pressure or level applications with the zero and span buttons. A field calibrator is not required for configuration. The transmitter software compensates for thermal effects, improving performance. EEPROM stores configuration settings and stores sensor correction coefficients in the event of shutdowns or power loss. The Series 3500 can be configured to be ATEX or IECEx approved for use in hazardous (classified) locations. The rangeability allows the smart transmitter to be configured to fit any application.

FEATURES/BENEFITS

- High accuracy (±0.075% FS)
- Rangeability (up to 25:1)
- Configurable using zero/span buttons (no calibrator required)
- Fail-mode process function
- Automatic ambient temperature compensation

APPLICATIONS

- Flow measurement
- Level monitoring
- Filter or pump differential pressure
- Critical process monitoring

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Service</th>
<th>Compatible gases, steam, liquids or vapors.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetted Materials</td>
<td>316L SS and FPM; with -DS: 316L SS</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.075% FS (@20°C).</td>
</tr>
<tr>
<td>Rangeability</td>
<td>Up to 25:1 turn down.</td>
</tr>
<tr>
<td>Stability</td>
<td>±0.075% FSO/3 years.</td>
</tr>
<tr>
<td>Temperature Limits</td>
<td>Ambient: -40 to 185°F (-40 to 85°C); Process w/-DS: -40 to 400°F (-40 to 204°C).</td>
</tr>
<tr>
<td>Thermal Effect</td>
<td>&lt;±0.05% span/10°C.</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>10 to 55 VDC.</td>
</tr>
<tr>
<td>Output Signal</td>
<td>4 to 20 mA.</td>
</tr>
<tr>
<td>Response Time</td>
<td>16 to 480 ms (programmable).</td>
</tr>
<tr>
<td>Damping Time</td>
<td>0 to 60 seconds.</td>
</tr>
<tr>
<td>Loop Resistance</td>
<td>Operation: 0 to 1500 Ω; HART® communication: min. 240 Ω, max. 1100 Ω.</td>
</tr>
<tr>
<td>Electrical Connection</td>
<td>Packing gland M20x1.5, two 1/2” female NPT conduit, screw terminal.</td>
</tr>
<tr>
<td>Process Connections</td>
<td>1/4” female NPT.</td>
</tr>
<tr>
<td>Enclosure Rating</td>
<td>NEMA 4X IP66/IP67.</td>
</tr>
<tr>
<td>Agency Approvals</td>
<td>CE; -IS. -FP suffix: ATEX Compliant</td>
</tr>
</tbody>
</table>
DIMENSIONS

HOW TO ORDER

Use the bold characters from the chart below to construct a product code.

SERIES
3500: Differential pressure smart transmitter

HOUSING
- AL: Aluminum housing
- AS: Stainless steel housing

RANGE
- 02: -10 to 10 in w.c.
- 04: 0 to 30 in w.c.
- 08: 0 to 100 in w.c.
- 10: -200 to 200 in w.c.
- 15: 0 to 1000 in w.c.
- 20: 0 to 15 psi
- 38: 0 to 230 psi
- 40: 0 to 1000 psi
- 50: -2.5 to 2.5 in w.c.
- 60: -1.5 to 1.5 psi

PROCESS CONNECTIONS
- NF: 1/4˝ female NPT
- DS: Diaphragm seal selection

ELECTRICAL CONNECTIONS
- 1: Packing gland M20x1.5
- 2: Thread 1/2˝ female NPT

DIAPHRAGM SEAL TYPE
- SPDH: S-P flush diaphragm seal direct mount high side
- SPRB: S-PK flush diaphragm seal capillary mount both sides
- SPRH: S-PK flush diaphragm seal capillary mount high side
- STDH: S-T extended diaphragm seal direct mount high side
- STRB: S-TK extended diaphragm seal capillary mount both sides
- STRH: S-TK extended diaphragm seal capillary mount high side

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