The Mercoid® Series 3200G Smart Pressure Transmitter is a microprocessor-based high performance transmitter, which has flexible pressure calibration, push button configuration, and programmable using HART® Communication. The Series 3200G is capable of being configured 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 3200G is FM approved for use in hazardous (Classified) locations. The 100:1 rangeability allows the smart transmitter to be configured to fit any application.

**FEATURES**

- Completely configurable using zero/span buttons (No calibrator required)
- Rangeability (100:1)
- High accuracy (0.075%) ±0.075%
- Automatic sensor temperature compensation
- Fail-mode process function

**SPECIFICATIONS**

**Service:** Compatible gases, steam, liquids or vapors.
**Wetted Materials:** 316L SS.
**Accuracy:** ±0.075% FS (@ 20°C).
**Rangeability:** 100:1 turndown.
**Stability:** ±0.125% FSO/yr.
**Temperature Limits:**
  - Process: -40 to 248°F (-40 to 120°C);
  - Ambient: Without LCD -40 to 185°F (-40 to 85°C);
    With LCD -22 to 176°F (-30 to 80°C).
**Thermal Effect:** ±0.125% span/32°C.
**Power Requirements:** 11.9 to 45 VDC.
**Output Signal:** 4 to 20 mA / HART® Communication.
**Response Time:** 0.12 seconds.
**Damping Time:** 0.25 to 60 seconds.
**Loop Resistance:**
  - Operation: 0 to 1500 Ω;
  - HART® Communication: 250 to 500 Ω.
**Electrical Connection:** Two 1/2˝ female NPT conduit, screw terminal.
**Process Connections:** 1/2˝ female NPT.
**Display:** Optional 5 digit LCD.
**Enclosure Rating:** NEMA 4X (IP66) and explosion proof for Class I, Div I Groups A, B, C and D.
**Weight:** 5.5 lb (2.5 kg).
**Agency Approvals:** CE, FM.

**NEW PRODUCT!**

Contact factory for custom calibration.

**ACCESSORIES**

- A-630, Stainless steel angle type bracket with SS bolts
- A-631, Stainless steel flat type bracket with SS bolts
- DevCom2000, HART® Communication Protocol Software
### Single Pressure Transmitter

**Series**
<table>
<thead>
<tr>
<th>3200G</th>
<th>2</th>
<th>FM</th>
<th>I</th>
<th>LES</th>
<th>S2</th>
<th>A1</th>
<th>05</th>
<th>S</th>
<th>2</th>
<th>05</th>
<th>LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>3200G-2-FM-3-1-LESS2A105S2-05-LCD</td>
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</tbody>
</table>

**Range**
<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>-14.5 to 21 psig</td>
<td>-14.5 to 217 psig</td>
<td>0 to 725 psig</td>
<td>0 to 3600 psig</td>
<td>0 to 8500 psig</td>
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</tbody>
</table>

**Approval**
- FM approved
- NEMA 4X/IP66 (Only available with 316 SS housing)

**Process Connection**
<table>
<thead>
<tr>
<th>1</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2˝ FNPT</td>
<td>Diaphragm seal</td>
</tr>
</tbody>
</table>

**Electrical Connection**
<table>
<thead>
<tr>
<th>LED</th>
<th>LES</th>
<th>LFD</th>
<th>LFS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 extended diaphragm seal direct mount</td>
<td>1 extended diaphragm seal capillary type high</td>
<td>1 flush diaphragm seal direct mount</td>
<td>1 flush diaphragm seal capillary type</td>
</tr>
</tbody>
</table>

**Mounting Flange**
<table>
<thead>
<tr>
<th>S2</th>
<th>S3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2˝ (50 mm) 316 L SS</td>
<td>3˝ (80 mm) 316 L SS</td>
</tr>
</tbody>
</table>

**Diaphragm Seal Type**
- 3200G-2 FM-3-1-LESS2A105S2-05-LCD
- 3200G Explosion-Proof Pressure Transmitter

**Process Connection**
- FM approved
- NEMA 4X/IP66 (Only available with 316 SS housing)

**Electrical Connection**
- 1/2˝ NPT

**Diaphragm Seal Type**
- 1/2˝ FNPT
- Diaphragm seal

**Diaphragm Material**
- 316 L SS diaphragm
- PTFE and 316 L SS diaphragm
- Hastelloy C-276 diaphragm
- Tantallum diaphragm

**Fill Fluid**
- Silicon oil (-40 to 400°F)

**Options**
- LCD
- 5 digit LCD
- SSH
- 316 SS housing (Only available with WP approval)
- NIST
- NIST calibration
- CC
- Custom calibration

**Custom Calibration Values**

- **Primary Units**: in H₂O, ft H₂O, mm H₂O, in Hg, psig, g/cm², kg/cm², Pa, kPa, bar, mbar, Torr, Atm, mm Hg
- **Upper Range Limit**: 20 mA value
- **Lower Range Limit**: 4 mA value
- **Damping Time**: 0 to 60 seconds
- **Display Mode**: Primary unit, %, mA, rotate

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![3200G Direct Mount](image1)

![3200G Capillary Type](image2)

![Extended Diaphragm Seal](image3)