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, and 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%)
- Automatic sensor temperature compensation
- Fail-safe process function

SPECIFICATIONS
- Service: Compatible gases, steam, liquids or vapors.
- Wetted Materials: 316L SS.
- Accuracy: ±0.075% FS (±20°C).
- Rangeability: 100:1 turn down.
- 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: ATEX, CE, FM.

The table below provides the range, calibrated span, max pressure, and LCD display for various models of the Series 3200G Smart Pressure Transmitter.

<table>
<thead>
<tr>
<th>Model</th>
<th>Range (psi/kPa)</th>
<th>Calibrated Span (Min. to Max.) (psi/kPa)</th>
<th>Max. Pressure (psi/bar)</th>
<th>LCD Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>3200G-1-FM-1-1</td>
<td>-14.5 to 21 (-100 to 150)</td>
<td>0.22 to 21 (1.5 to 150)</td>
<td>58 (4)</td>
<td>No</td>
</tr>
<tr>
<td>3200G-2-FM-1-1</td>
<td>-14.5 to 217 (-100 to 1500)</td>
<td>2 to 217 (15 to 1500)</td>
<td>580 (40)</td>
<td>No</td>
</tr>
<tr>
<td>3200G-3-FM-1-1</td>
<td>0 to 725 (0 to 5000)</td>
<td>7.25 to 725 (50 to 5000)</td>
<td>2000 (138)</td>
<td>No</td>
</tr>
<tr>
<td>3200G-4-FM-1-1</td>
<td>0 to 3600 (0 to 25000)</td>
<td>36 to 3600 (250 to 25000)</td>
<td>10000 (690)</td>
<td>No</td>
</tr>
</tbody>
</table>

Contact factory for custom calibration.

ACCESSORIES
- A-630, Stainless steel angle bracket with SS bolts
- A-631, Stainless steel flat type bracket with SS bolts
- BBV-0N, 2-valve block manifold
- DevCom2000, HART® Communication Protocol Software

HART® is a registered trademark of Hart Communication Foundation.
Single Pressure Transmitters

The Model DevCom2000 HART® Communicator Software turns your PC into a full-featured HART® communicator. Now it is possible to configure transmitters and control valves at the desktop or in the field. DevCom2000 uses device descriptions (DDs) to retrieve data that is stored in the memory of smart field devices. This software is a simple, reliable and secure method to add new measurement values to control systems without the need of additional wires. This software eliminates the need to purchase and maintain a separate handheld HART® communicator.

FEATURES
- Complete DD library
- Includes USB HART modem
- USB 1.1 and 2.0 compatible
- Self powered modem

Model DevCom2000, HART® Communicator Software

SPECIFICATIONS
HART® Communicator Software
DD Library: Included.
Generic DD: Included.

USB HART MODEM
Material: High strength ABS plastic.
Temperature Limits: 0 to 50°C (32 to 122°F).
Storage Temperature: -40 to 85°C (-40 to 185°F).
Humidity: 0 to 99% (non-condensing).
HART® Cable Length: 4’ (1.2 m).

HART® Cable Connectors: Mini-grabber.
USB Cable Length: 18” (0.5 m). USB Cable Connector: USB Type A. USB: USB 1.1, USB 2.0.
Power: USB port provides power to unit.
Current Draw: 20 mA.
Output: 600 mVpp.
Leakage: < 10 uA.
Isolation Voltage: 1500 VDC.
HART® 4, 5, 6, 7, HART® Physical Layer Spec HCF_SPEC-54.
Weight: 3 oz (85 g).
Agency Approval: CE.

CONTACT US | U.S. 219/879-8000 | U.K. (+44) (0)1494-461707 | A.U. (+61) (0) 2 4272 2055 | China +852-23181007

Example

<table>
<thead>
<tr>
<th>Series</th>
<th>3200G</th>
<th>3200G-2-FM-3-1-LESS2A105S2-05-LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>3</td>
<td>explosion-proof pressure transmitter</td>
</tr>
<tr>
<td>Approval</td>
<td>FM</td>
<td>FM approved</td>
</tr>
<tr>
<td>Process Connection</td>
<td>1</td>
<td>1/2” female NPT</td>
</tr>
<tr>
<td>Electrical Connection</td>
<td>1</td>
<td>1/2” female NPT</td>
</tr>
<tr>
<td>Diaphragm Seal Type</td>
<td>1</td>
<td>1 extended diaphragm seal direct mount</td>
</tr>
<tr>
<td>Mounting Flange</td>
<td>2</td>
<td>2” (50 mm) 316L SS</td>
</tr>
<tr>
<td>Mounting Flange Rating</td>
<td>2</td>
<td>ANSI class 150#</td>
</tr>
<tr>
<td>Extension Length</td>
<td>00</td>
<td>No extension (standard for flush mount)</td>
</tr>
<tr>
<td>Diaphragm Material</td>
<td>3</td>
<td>316L SS diaphragm</td>
</tr>
<tr>
<td>Fill Fluid</td>
<td>2</td>
<td>Silicon oil (-40 to 400°F)</td>
</tr>
<tr>
<td>Capillary Length</td>
<td>0</td>
<td>0 to 20 feet</td>
</tr>
</tbody>
</table>

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 |

HART® Communication Protocol Software
Includes USB HART Modem

Model DevCom2000, HART® Communicator Software

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