The Mercoid® Series 3200G Explosion-Proof 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/BENEFITS
• Completely configurable using zero/span buttons (no calibrator required)
• Rangeability (100:1)
• High accuracy (±0.075%)
• Automatic sensor temperature compensation
• Fail-mode process function

APPLICATIONS
• Water and wastewater
• Chemical and petrochemical
• Pulp and paper
• Oil and gas
• Food and beverage

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: 11.9-45 VDC.
Output Signal: 4-20 mA / HART® Communication.
Response Time: 0.12 s.
Damping Time: 0.25 to 60 s.
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.

HART® is a registered trademark of Hart Communication Foundation.
EXPLOSION-PROOF PRESSURE TRANSMITTER

HART®, Push-Button Configuration, Rangeability (100:1)

MODEL CHART

<table>
<thead>
<tr>
<th>Example</th>
<th>S3200G-2-FM-3-1-LES2A105S2-05-LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>S3200G</td>
</tr>
<tr>
<td>Range</td>
<td>-14.5 to 21 psig (factory set 0 to 21 psig)</td>
</tr>
<tr>
<td>Approval</td>
<td>FM approved</td>
</tr>
<tr>
<td>Process Connection</td>
<td>1/2&quot; female NPT Diaphragm seal</td>
</tr>
<tr>
<td>Electrical Connection</td>
<td>1/2&quot; female NPT</td>
</tr>
<tr>
<td>Diaphragm Seal Type</td>
<td>1 extended diaphragm seal direct mount</td>
</tr>
<tr>
<td>Mounting Flange Rating</td>
<td>ANSI class 150#</td>
</tr>
<tr>
<td>Extension Length</td>
<td>No extension (standard for flush mount)</td>
</tr>
<tr>
<td>Diaphragm Material</td>
<td>316L SS diaphragm</td>
</tr>
<tr>
<td>Capillary Length</td>
<td>0 to 20 feet</td>
</tr>
<tr>
<td>Options</td>
<td>LCD 5 digit LCD</td>
</tr>
</tbody>
</table>

CUSTOM CALIBRATION VALUES

<table>
<thead>
<tr>
<th>Primary Units</th>
<th>in w.c., ft w.c., mm w.c., in Hg, psig, g/cm², kg/cm², Pa, kPa, bar, mbar, Torr, Atm, mm Hg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Range Limit</td>
<td>0 to 5000 psig</td>
</tr>
<tr>
<td>Lower Range Limit</td>
<td>0 to 200 psig</td>
</tr>
<tr>
<td>Damping Time</td>
<td>0 to 60 seconds</td>
</tr>
<tr>
<td>Display Mode</td>
<td>Primary unit, %, mA, rotate</td>
</tr>
</tbody>
</table>

MODEL DEVCOM2000

HART® COMMUNICATION PROTOCOL SOFTWARE

Includes USB HART Modem

The Model DEVCOM2000 HART® Communication Protocol 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/BENEFITS

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

APPLICATIONS

- For use with pressure transmitters and control-valves in:
  - Water and wastewater
  - Chemical and petrochemical
  - Oil and gas
  - Pulp and paper
  - Food and beverage

SPECIFICATIONS

HART® Communicator Software

- DD Library: Included
- Generic DD: Included
- Operating System: Windows NT®, Windows® 2000, Windows XP®, Windows® Vista (32/64), Windows® 7 (32/64)
- 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)
- 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®: HART® 4, HART® 5, HART® 6
- HART® Physical Layer Spec HCF, SPEC-54
- Weight: 3 oz (85 g)
- Agency Approvals: CE

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