The high performance gauge pressure transmitter EJX430A features single crystal silicon resonant sensor and is suitable to measure liquid, gas, or steam pressure. The EJX430A outputs a 4 to 20 mA DC signal corresponding to the measured pressure. It also features quick response, remote setup and monitoring via BRAIN or HART communications, and diagnostics. The multi-sensing technology provides the advanced diagnostic function to detect such abnormalities as an impulse line blockage or heat trace breakage. FOUNDATION Fieldbus and PROFIBUS PA protocol types are also available.

All EJX series models in their standard configuration, with the exception of the Fieldbus and PROFIBUS types, are certified as complying with SIL 2 for safety requirement.

**STANDARD SPECIFICATIONS**

Refer to GS 01C25T02-01EN for Fieldbus communication type and GS 01C25T04-01EN for PROFIBUS PA communication type for the items marked with "◊.

- **SPAN AND RANGE LIMITS**

<table>
<thead>
<tr>
<th>Measurement Span/Range</th>
<th>MPa (D1)</th>
<th>psi (D2)</th>
<th>bar (D3)</th>
<th>kg/cm² (D4)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>H</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Span</td>
<td>2.5 to 500 kPa</td>
<td>10 to 2000 inH₂O</td>
<td>0.025 to 5</td>
<td>0.025 to 5</td>
</tr>
<tr>
<td>Range</td>
<td>-100 to 500 kPa</td>
<td>-400 to 2000 inH₂O</td>
<td>-1 to 5</td>
<td>-1 to 5</td>
</tr>
<tr>
<td><strong>A</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Span</td>
<td>0.0175 to 3.5</td>
<td>2.5 to 500</td>
<td>0.175 to 35</td>
<td>0.175 to 35</td>
</tr>
<tr>
<td>Range</td>
<td>-0.1 to 3.5</td>
<td>-14.5 to 500</td>
<td>-1 to 35</td>
<td>-1 to 35</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Span</td>
<td>0.08 to 16</td>
<td>12 to 2300</td>
<td>0.8 to 160</td>
<td>0.8 to 160</td>
</tr>
<tr>
<td>Range</td>
<td>-0.1 to 16</td>
<td>-14.5 to 2300</td>
<td>-1 to 160</td>
<td>-1 to 160</td>
</tr>
</tbody>
</table>

- **PERFORMANCE SPECIFICATIONS**

Zero-based calibrated span, linear output, wetted parts material code ‘S’ and silicone oil, unless otherwise mentioned.

For Fieldbus and PROFIBUS PA communication types, use calibrated range instead of span in the following specifications.

**Specification Conformance**

EJX series ensures specification conformance to at least ±3σ.

**Reference Accuracy of Calibrated Span**

(includes the effects of terminal-based linearity, hysteresis, and repeatability)

**When /HAC is specified**

**Measurement span**

<table>
<thead>
<tr>
<th>H</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference accuracy</td>
<td>±0.04% of Span</td>
<td>±0.04% of Span</td>
</tr>
<tr>
<td>X ≤ span</td>
<td>X &gt; span</td>
<td>X &gt; span</td>
</tr>
<tr>
<td>±0.005+0.0049 URL/span</td>
<td>±0.005+0.0035 URL/span</td>
<td>±0.010+0.0015 URL/span</td>
</tr>
<tr>
<td>URL (Upper Range Limit)</td>
<td>500 kPa (2000 inH₂O)</td>
<td>1.6 MPa (230 psi)</td>
</tr>
</tbody>
</table>

**Measurement span**

<table>
<thead>
<tr>
<th>H</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference accuracy</td>
<td>±0.025% of Span</td>
<td>±0.010%+0.0015 URL/span</td>
</tr>
<tr>
<td>X ≤ span</td>
<td>X &gt; span</td>
<td>X &gt; span</td>
</tr>
<tr>
<td>±0.005+0.0028 URL/span</td>
<td>±0.010+0.0015 URL/span</td>
<td>±0.010+0.0015 URL/span</td>
</tr>
<tr>
<td>URL (Upper Range Limit)</td>
<td>500 kPa (2000 inH₂O)</td>
<td>1.6 MPa (230 psi)</td>
</tr>
</tbody>
</table>
Ambient Temperature Effects per 28°C (50°F)

<table>
<thead>
<tr>
<th>Capsule</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>H, A, and B</td>
<td>±(0.04% Span + 0.0125% URL)</td>
</tr>
</tbody>
</table>

Stability (All normal operating condition)
±0.1% of URL per 15 years

Power Supply Effects (Output signal code D, E and J)
±0.005 % per Volt (from 21.6 to 32 V DC, 350Ω)

Vibration Effects
Amplifier housing code 1 and 3:
Less than 0.1% of URL when tested per the requirements of IEC60770-1 field or pipeline with high vibration level (10-60 Hz, 0.21 mm displacement/60-2000 Hz 3 g)
Amplifier housing code 2:
Less than ±0.1% of URL when tested per the requirements of IEC60770-1 field with general application or pipeline with low vibration level (10-60 Hz 0.15mm displacement /60-500 Hz 2g)

Mounting Position Effects
Rotation in diaphragm plane has no effect. Tilting up to 90 degree will cause zero shift up to 0.4 kPa (1.6 inH2O) which can be corrected by the zero adjustment.

Response Time (All capsules) "◊"
90 ms
150 msec for H capsule with Wetted Parts Material code H, M, T, A, D, B and W.
When software damping is set to zero and including dead time of 45 ms (nominal)

FUNCTIONAL SPECIFICATIONS

Output "◊"
Two wire 4 to 20 mA DC output with digital communications, linear or square root programmable. BRAIN or HART FSK protocol are superimposed on the 4 to 20 mA signal.
Output range: 3.6 mA to 21.6 mA
Output limits conforming to NAMUR NE43 can be pre-set by option code C2 or C3.

Failure Alarm (Output signal code D, E and J)
Output status at CPU failure and hardware error;
Up-scale: 110%, 21.6 mA DC or more (standard)
Down-scale: ~5%, 3.2 mA DC or less
Analog output status at process abnormality (Option code /DG6);
The result of process abnormality detected by the advanced diagnostic function can be reflected to an analog alert status. The following three setting modes are available.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Burnout</th>
<th>Fall back</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>110%,</td>
<td>2.5%,</td>
<td>2.5%</td>
</tr>
<tr>
<td></td>
<td>21.6mA or more</td>
<td>3.6mA or less</td>
<td>3.6mA or less</td>
</tr>
<tr>
<td>Option Code</td>
<td>/C1</td>
<td>/C2</td>
<td>/C3</td>
</tr>
<tr>
<td></td>
<td>-2.5%</td>
<td>-1.25%</td>
<td>103.1%</td>
</tr>
<tr>
<td></td>
<td>3.6mA or less</td>
<td>3.8mA or less</td>
<td>20.5mA or more</td>
</tr>
</tbody>
</table>

Damping Time Constant (1st order)
Amplifier’s damping time constant is adjustable from 0.00 to 100.00 s by software and added to response time.
Note: For BRAIN protocol type, when the software damping is set to less than 0.5 s, communication may occasionally be unavailable during the operation, especially while output changes dynamically. The default setting of damping ensures stable communication.

Update Period "◊"
Pressure: 45 ms

Zero Adjustment Limits
Zero can be fully elevated or suppressed, within the lower and upper range limits of the capsule.

External Zero Adjustment
External zero is continuously adjustable with 0.01% incremental resolution of span. Re-range can be done locally using the digital indicator with rangeselecting switch.

Integral Indicator (LCD display) "◊"
5-digit numerical display, 6-digit unit display and bar graph.
The indicator is configurable to display one or up to three of the following variables periodically; pressure in %, scaled pressure, measured pressure. See also “Factory Setting”.

Local Parameter Setting (Output signal code D, E, and J)
Parameter configuration by the external zero adjustment screw and push button (Integral indicator code E) offers easy and quick setup for parameters of Loop test, Tag number, Unit, LRV, URV, Damping, Output mode (linear/square root), Display out 1, and Re-range by applying actual pressure (LRV/URV) and Device Information.

Burst Pressure Limits
69 MPa (10,000 psi)

Self Diagnostics
CPU failure, hardware failure, configuration error, and over-range error for pressure and capsule temperature.
User-configurable process high/low alarm for pressure is also available, and its status can be output when optional status output is specified.

Advanced Diagnostics (optional) "◊"
Applicable for Output signal code E, J and F.
• Impulse line blockage detection
  The impulse line condition can be calculated and detected by extracting the fluctuation component from the static pressure signal.
• Heat trace monitoring
  The change of the flange temperature calculated by using the two temperature sensors built in the EJX enables to detect the heat trace breakage or the abnormal temperature due to the failure.

Signal Characterizer (Output signal code D, E and J)
User-configurable 10-segment signal characterizer for 4 to 20 mA output.
Status Output (optional, output signal code D, E and J)
One transistor contact output (sink type) to output the status of user configurable high/low alarm for pressure.
Contact rating : 30 V DC, 120 mA DC max.
Refer to ‘Terminal Configuration’ and ‘Wiring Example for Analog Output and Status Output.’

SIL Certification
All the EJX series transmitters except Fieldbus and PROFINBUS PA communication types are certified in compliance with the following standards; IEC 61508: 2010;
Functional Safety of Electrical/electronic/programmable electronic related systems; SIL 2 capability for single transmitter use, SIL 3 capability for dual transmitter use.
Reliability Data different depending on hardware and software revision.
For details, refer to Functional Safety Data Sheet.
(Document number: TI 01C25A05-01EN or TI 01C25A05-21EN for option code SLT)
The document can be downloaded from the website of Yokogawa.
(Website address: https://www.yokogawa.com/solutions/products-platforms/field-instruments/)

NORMAL OPERATING CONDITION
(Optional features or approval codes may affect limits.)

Ambient Temperature Limits
−40 to 85°C (−40 to 185°F)
−30 to 80°C (−22 to 176°F) with LCD display

Process Temperature Limits
−40 to 120°C (−40 to 248°F)

Ambient Humidity Limits
0 to 100% RH

Maximum Over Pressure

<table>
<thead>
<tr>
<th>Capsule</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H and A</td>
<td>16 MPa (2300 psi)</td>
</tr>
<tr>
<td>B</td>
<td>25 MPa (3600 psi)*</td>
</tr>
</tbody>
</table>

*: 24 MPa (3400 psi) for Wetted Parts Material code H, M, T, A, D, B and W.

Working Pressure Limits (Silicone oil)

Maximum Pressure Limits

<table>
<thead>
<tr>
<th>Capsule</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>500 kPa (2000 inH₂O)</td>
</tr>
<tr>
<td>A</td>
<td>3.5 MPa (500 psi)</td>
</tr>
<tr>
<td>B</td>
<td>16 MPa (2300 psi)</td>
</tr>
</tbody>
</table>

Minimum Pressure Limit

See graph below

![Minimum Pressure Limit Graph](F01E.ai)

Figure 1. Working Pressure and Process Temperature

Supply & Load Requirements
(Output signal code D, E and J. Optional features or approval codes may affect electrical requirements.)

With 24 V DC supply, up to a 550Ω load can be used. See graph below.

![Supply & Load Requirements Graph](F02E.ai)

Figure 2. Relationship Between Power Supply Voltage and External Load Resistance
Supply Voltage “◊”
10.5 to 42 V DC for general use and flameproof type.
10.5 to 32 V DC for lightning protector
  (option code /A.)
10.5 to 30 V DC for intrinsically safe, type n, or non-
incendive type.
Minimum voltage limited at 16.6 V DC for digital
communications, BRAIN and HART
Load (Output signal code D, E and J)
0 to 1290Ω for operation
250 to 600Ω for digital communication
Communication Requirements “◊”
(Approval codes may affect electrical requirements.)
  BRAIN
  Communication distance
  Up to 2 km (1.25 miles) when using CEV
  polyethylene-insulated PVC-sheathed cables.
  Communication distance varies depending on type of
cable used.
  Load capacitance
  0.22 µF or less
  Load inductance
  3.3 mH or less
  Input impedance of communicating device
  10 kΩ or more at 2.4 kHz.
EMC Conformity Standards
EN 61326-1 Class A, Table2
EN 61326-2-3
EN 61326-2-5 (for fieldbus)
European Pressure Equipment Directive
2014/68/EU
Sound Engineering Practice
EU RoHS Directive
EN 50581
Safety Requirement Standards
EN 61010-1, C22.2 No.61010-1
  • Installation category: I
  (Anticipated transient overvoltage 330 V)
  • Pollution degree: 2
  • Indoor/Outdoor use

□ PHYSICAL SPECIFICATIONS

Wetted Parts Materials
  Diaphragm, cover flange, process connector,
capsule gasket, and vent/drain plug
  Refer to “MODEL AND SUFFIX CODES.”
  Process connector gasket
  PTFE Teflon
  Fluorinated rubber for option code N2 and N3

Non-wetted Parts Materials
Bolting
  B7 carbon steel, 316L SST or 660 SST
Housing
  • Low copper cast aluminum alloy
  • Low copper cast aluminum alloy with corrosion
    resistance properties (copper content ≤ 0.03%,
    iron content ≤ 0.15%) (optional)
  • ASTM CF-8M Stainless steel (optional)
Coating of housing
  [for aluminum housing]
  Polyester resin powder coating
  Mint-green paint (Munsell 5.6BG 3.3/2.9 or its
  equivalent)
  [for option code /P □ or /X2]
  Epoxy and polyurethane resin solvent coating
Degrees of protection
  IP66/IP67, Type 4X
Cover O-rings
  Buna-N, fluoro-rubber (optional)
Name plate and tag
  316 SST
Fill fluid
  Silicone, Fluorinated oil (optional)
Weight
  [Installation code 7, 8 and 9]
  2.8 kg (6.2 lb) for wetted parts material code S and
  L, without integral indicator, mounting bracket, and
  process connector.
  Add 1.5 kg (3.3 lb) for Amplifier housing code 2.
Connections
  Refer to “MODEL AND SUFFIX CODES.”
  Process connection of cover flange: IEC61518

< Related Instruments>
  FieldMate Versatile Device Management Wizard:
    Refer to GS 01R01A01-01E.
  BRAIN TERMINAL: Refer to GS 01C00A11-00E
  Power Distributor: Refer to GS 01B04T01-02E or
    GS 01B04T02-02E

< Reference >
  1. is a registered trademark of Yokogawa
    Electric Corporation.
  2. FieldMate; Trademark of Yokogawa Electric
    Corporation
  3. Teflon; Trademark of E.I. DuPont de Nemours &
    Co.
  4. Hastelloy; Trademark of Haynes International Inc.
  5. HART®: Registered trademark of the FieldComm
    Group.
  6. FOUNDATION Fieldbus; Trademark of the
    FieldComm Group.
  7. PROFIBUS; Registered trademark of Profibus
    Nutzerorganisation e.v., Karlsruhe, Germany.
  Other company names and product names used in
  this material are registered trademarks or trademarks
  of their respective owners.
### MODEL AND SUFFIX CODES

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJX430A</td>
<td>-D</td>
<td>Gauge pressure transmitter</td>
</tr>
<tr>
<td></td>
<td>-E</td>
<td>-F</td>
</tr>
<tr>
<td></td>
<td>-J</td>
<td>-F</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Digital communication (FOUNDATION Fieldbus protocol, refer to GS 01C25T02-01EN)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Digital communication (PROFIBUS PA protocol, refer to GS 01C25T04-01EN)</td>
</tr>
</tbody>
</table>

- Measurement span (capsule) |
  - H.......................... 2.5 to 500 kPa (10 to 2000 inH2O)  0.0175 to 3.5 MPa (2.5 to 500 psi)  0.08 to 16 MPa (12 to 2300 psi) |
  - A..........................  |
  - B..........................  |

- Wetted parts material *1 |
  - Refer to “Wetted Parts Material” Table. |
  -  |

- Process connections |
  - 0 ...................... without process connector (Rc1/4 female on the cover flanges)  with Rc1/4 female process connector  with Rc1/2 female process connector  with 1/4 NPT female process connector  with 1/2 NPT female process connector  without process connector (1/4 NPT female on the cover flanges) |
  - 1 ......................  |
  - 2 ......................  |
  - 3 ......................  |
  - 4 ......................  |
  - 5 ......................  |

- Bolts and nuts material |
  - J .......................... B7 carbon steel  |
  - G .......................... 316L SST  |
  - C .......................... 660 SST  |

- Installation |
  - -3 ...................... Vertical piping, right side high pressure, and process connection down side  Vertical piping, left side high pressure, and process connection down side  Vertical piping, left side high pressure  Horizontal piping and left side high pressure  Bottom Process Connection, left side high pressure  |
  - -7 ......................  |
  - -8 ......................  |
  - -9 ......................  |
  - -B ......................  |
  - -U ......................  |

- Amplifier housing |
  - 1 ...................... Cast aluminum alloy  |
  - 3 ...................... Cast aluminum alloy with corrosion resistance properties  |
  - 2 ...................... ASTM CF-8M stainless steel  |

- Electrical connection |
  - 0 ...................... G1/2 female, one electrical connection without blind plugs  1/2 NPT female, two electrical connections without blind plugs  M20 female, two electrical connections without blind plugs  Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.  |
  - 1 ......................  |
  - 2 ......................  |
  - 3 ......................  |
  - 4 ......................  |
  - 5 ......................  |
  - 6 ......................  |
  - 7 ......................  |
  - 8 ......................  |
  - 9 ......................  |
  - A ...................... G1/2 female, two electrical connections and a blind plug  |
  - B ...................... G1/2 female, two electrical connections and a blind plug  |
  - C ......................  |
  - D ......................  |

- Integral indicator |
  - D .......................... Digital indicator  |
  - E .......................... Digital indicator with the range setting switch (push button)  |
  - N .......................... (None)  |

- Mounting bracket |
  - B .......................... 304 SST 2-inch pipe mounting, flat type (for horizontal piping)  304 SST or SCs13A 2-inch pipe mounting, L type (for vertical piping)  |
  - D .......................... 316 SST 2-inch pipe mounting, flat type (for horizontal piping)  316 SST or SCs14A 2-inch pipe mounting, L type (for vertical piping)  |
  - J .......................... 316 SST or SCs14A 2-inch pipe mounting (for bottom process connection type)  (None)  |
  - K ..........................  |
  - M ..........................  |
  - N ..........................  |

Optional Codes |
  - □ Optional specification  |

The “►” marks indicate the most typical selection for each specification.

*1: △ Users must consider the characteristics of selected wetted parts material and the influence of process fluids. The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the diaphragm itself can be damaged and that material from the broken diaphragm and the fill fluid can contaminate the user’s process fluids. Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.

*2: Applicable only for Wetted parts material code S.

*3: Not applicable for electrical connection code 0, 5, 7, 9 and A. Content rate of copper in the material is 0.03% or less and content rate of iron is 0.15% or less.

*4: Not applicable for electrical connection code 0, 5, 7 and 9.

*5: Material of a blind plug; aluminum alloy for code 5 and 9, and SUS304 for code 7.

*6: Not applicable for output signal code G.

*7: Not applicable for output signal code F.
<table>
<thead>
<tr>
<th>Wetted parts material code</th>
<th>Cover flange and process connector</th>
<th>Capsule</th>
<th>Capsule gasket</th>
<th>Vent/Drain plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>S #</td>
<td>ASTM CF-8M *1</td>
<td>Hastelloy C-276 *2 (Diaphragm) F316L SST, 316L SST (Others)</td>
<td>Teflon-coated 316L SST</td>
<td>316 SST</td>
</tr>
<tr>
<td>L #</td>
<td>ASTM CF-3M *2</td>
<td>Hastelloy C-276 *2 (Diaphragm) F316L SST, 316L SST (Others)</td>
<td>Teflon-coated 316L SST</td>
<td>316L SST</td>
</tr>
<tr>
<td>H #</td>
<td>ASTM CF-8M *3</td>
<td>Hastelloy C-276 *2</td>
<td>Monel</td>
<td>PTFE Teflon</td>
</tr>
<tr>
<td>M #</td>
<td>ASTM CF-6M *4</td>
<td>Tantulum</td>
<td>PTFE Teflon</td>
<td>316 SST</td>
</tr>
<tr>
<td>T #</td>
<td>ASTM CF-8M *5</td>
<td>Hastelloy C-276 *6</td>
<td>PTFE Teflon</td>
<td>316 SST</td>
</tr>
<tr>
<td>A #</td>
<td>Hastelloy C-276 equivalent *7</td>
<td>Hastelloy C-276 *2</td>
<td>PTFE Teflon</td>
<td>Hastelloy C-276 *2</td>
</tr>
<tr>
<td>D #</td>
<td>Hastelloy C-276 equivalent *8</td>
<td>Tantulum</td>
<td>PTFE Teflon</td>
<td>Hastelloy C-276 *2</td>
</tr>
<tr>
<td>B #</td>
<td>Monel equivalent *9</td>
<td>Monel</td>
<td>PTFE Teflon</td>
<td>Monel</td>
</tr>
<tr>
<td>W #</td>
<td>Super Duplex SST equivalent *10</td>
<td>Hastelloy C-276 *2</td>
<td>PTFE Teflon</td>
<td>Super Duplex SST *6</td>
</tr>
</tbody>
</table>

*1: Cast version of 316 SST. Equivalent to SCS14A.  
*2: Hastelloy C-276 or ASTM N10276.  
*3: Indicated material is equivalent to ASTM CW-12MW.  
*4: Indicated material is equivalent to ASTM M35-2.  
*5: Indicated material is equivalent to ASTM A995 Grade5A.  
*6: ASTM S32750 or EN 10272 1.4410.  
*7: Cast version of 316L SST. Equivalent to SCS16A.  

The ‘#’ marks indicate the construction materials conform to NACE material recommendations per MR0175/ISO 15156. Please refer to the latest standards for details. Selected materials also conform to NACE MR0103.

[Process Connections Code for Diaphragm Seal System]

The table below shows the codes dedicated for the combination with a diaphragm seal system. They are only available when the transmitter is ordered in combination with a diaphragm seal system. Please also refer to GS 01C25W01-01EN.

<table>
<thead>
<tr>
<th>Process Connections Code</th>
<th>High Pressure Side</th>
<th>Low Pressure Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>With C80F□, C82F□ or C70S□ diaphragm seal</td>
<td>Open to atmosphere</td>
</tr>
<tr>
<td>G</td>
<td>With C80F□ or C82F□ diaphragm seal for high vacuum use</td>
<td>Open to atmosphere</td>
</tr>
</tbody>
</table>

C80F□, C82F□, and C70S□ stand for C80FW or C80FE remote mount flanged diaphragm seal, C82FA inner diaphragm adapter connection seal, or C82FD inner diaphragm flanged seal, and C70SW or C70SE remote mount hygienic diaphragm seal respectively.
### OPTIONAL SPECIFICATIONS (For Explosion Protected type) “◊”

For other agency approvals and marine approvals, please refer to GS 01C25A20-01EN.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
</table>
| **Factory Mutual (FM)** | **FM Explosionproof Approval**<sup>1</sup>  
Explosionproof for Class I, Division 1, Groups B, C and D, Dust-ignitionproof for Class II/III, Division 1,  
Groups E, F and G, in hazardous locations, indoors and outdoors (Enclosure: Type 4X)  
“FACTORY SEALED, CONDUIT SEAL NOT REQUIRED.”  
Temperature class: TS, Amb. Temp.: −40 to 60°C (−40 to 140°F) | FF1 |
| **FM Intrinsically safe Approval**<sup>1</sup><sup>2</sup>  
Applicable Standard: FM 3600, FM 3610, FM 3811, ANSI/ISA-60079-0, ANSI/ISA-60079-11,  
ANSI/ISA-61010-1, NEMA 250  
Intrinsically Safe for Class I, Division 1, Groups A, B, C & D, Class II, Division 1,  
Groups E, F & G and Class III, Division 1, Class I, Zone 0, in Hazardous Locations, AEx ia IIC  
Nonincendive for Class I, Division 2, Groups A, B, C & D, Class II, Division 2,  
Groups F & G, Class I, Zone 2, Group IIIC, in Hazardous Locations  
Enclosure: Type 4X, Temp. Class: T4, Amb. Temp.: −60 to 60°C (−75 to 140°F)  
Intrinsically Safe Apparatus Parameters  
[Groups A, B, C, D, E, F and G] Vmax=30 V, Imax=200 mA, Pmax=1 W, Ci=6 nF, Li=0 µH  
[Groups C, D, E, F and G] Vmax=30 V, Imax=225 mA, Pmax=1 W, Ci=6 nF, Li=0 µH | FS1 |
| **ATEX Flameproof Approval**<sup>1</sup>  
Applicable Standard: EN IEC 60079-0, EN 60079-1, EN 60079-31  
Certificate: KEMA 07ATEX0109 X  
II 2G, 2D Ex db IIC T6...T4 Gd, Ex tb IIIc T85°C Db  
Degree of protection: IP66/IP67  
Amb. Temp. (Tamb) for gas-proof:  
T4; −50 to 75°C (−58 to 167°F), T5; −50 to 80°C (−58 to 176°F), T6; −50 to 75°C (−58 to 167°F)  
Process Temp. for gas-proof (Tp):  
T4; −50 to 120°C (−58 to 248°F), T5; −50 to 100°C (−58 to 212°F), T6; −50 to 85°C (−58 to 185°F)  
Max. surface Temp. for dust-proof: T85°C (Tamb: −30 to 75°C, Tp: −30 to 85°C)<sup>3</sup> | KF22 |
| **ATEX Intrinsically safe Approval**<sup>1</sup><sup>2</sup>  
Applicable Standard: EN 60079-0, EN 60079-11  
Certificate: DEKRA 11ATEX0228 X  
II 1G, 2D Ex ia IIC T4 Ga, Ex ia IIIc T85°C T100°C T120°C Db  
Degree of protection: IP66/IP67  
Amb. Temp. (Tamb) for EPL Ga: −50 to 60°C (−58 to 140°F)  
Maximum Process Temp. (Tp) for EPL Ga: 120°C  
Electrical data: Ui=30 V, Ii=200 mA, Pi=0.9 W, Ci=27.6 nF, Li=0 µH  
Amb. Temp. for EPL Gb: −30 to 60°C<sup>3</sup>  
Max. surface Temp. for EPL Gb: T85°C (Tp: 80°C), T100°C (Tp: 100°C), T120°C (Tp: 120°C) | KS21 |
| **Combined KF22, KS21 and ATEX Intrinsically safe Ex ic**<sup>1</sup><sup>2</sup>  
[ATEX Intrinsically safe Ex ic]  
Applicable Standard: EN 60079-0, EN 60079-11  
II 3G Ex ic IIC T4 Gc, Amb. Temp.: −30 to 60°C (−22 to 140°F)<sup>3</sup>  
Ui=30 V, Ci=27.6 nF, Li=0 µH | KU22 |
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
</table>
| **Canadian Standards Association (CSA)**                            | **CSA Explosionproof Approval**
| Explosion-proof for Class I, Groups B, C and D.                    | Dustignition-proof for Class II/III, Groups E, F and G. When installed in Division 2, “SEAL NOT REQUIRED” Enclosure: Type 4X, Temp. Code: T6...T4
| Max. Process Temp.: T4; 120°C (248°F), T5; 100°C (212°F), T6; 85°C (185°F) | Amb. Temp.: –50 to 75°C (–58 to 167°F) for T4, –50 to 80°C (–58 to 176°F) for T5, –50 to 75°C (–58 to 167°F) for T6
| Process Sealing Certification                                      | Dual Seal Certified by CSA to the requirement of ANSI/ISA-12.27.01 No additional sealing required Primary seal failure annunciation: at the zero adjustment screw |
| **CSA Intrinsicly safe Approval**                                   | **Certificate: 1606623**
| [For Division System]                                               | Applicable Standard: C22.2 No.0, C22.2 No.94, C22.2 No.157, C22.2 No.213, C22.2 No.61010-1, C22.2 No.61010-2-030
| Intrinsically Safe for Class I, Division 1, Groups A, B, C & D, Class II, Division 1, Groups E, F & G, Class III, Division 1, Nonincendive for Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G, Class III, Division 1
| Enclosure: Type 4X, Temp. Code: T4 Amb. Temp.: –50 to 60°C (–58 to 140°F) | Electrical Parameters: [Intrinsically Safe] Vmax=30V, Imax=200mA, Pmax=0.9W, Ci=10nF, Li=0μH [Nonincendive] Vmax=30V, Ci=10nF, Li=0μH
| Process Sealing Certification                                      | Dual Seal Certified by CSA to the requirement of ANSI/ISA-12.27.01 No additional sealing required Primary seal failure annunciation: at the zero adjustment screw |
| **IECEx Scheme**                                                    | **IECEx Flameproof Approval**
| Certificate: IECEx CSA 07.0008                                       | Applicable Standard: IEC 60079-0, IEC60079-1
| Flameproof for Zone 1, Ex d IIC T6...T4 Gb Enclosure: IP66/IP67      | Max. Process Temp.: T4; 120°C (248°F), T5; 100°C (212°F), T6; 85°C (185°F) Amb. Temp.: –50 to 75°C (–58 to 167°F) for T4, –50 to 80°C (–58 to 176°F) for T5, –50 to 75°C (–58 to 167°F) for T6
| **IECEx Intrinsically safe and Flameproof Approval**                 | Intrinsicly safe Ex ia
| Certificate: IECEx DEK 11.0081X                                      | Applicable Standard: IEC 60079-0, IEC 60079-11
| Ex ia IIC T4 Gb Enclosure: IP66/IP67                                | Max. Process Temp.: 120°C (248°F) Amb. Temp.: –50 to 60°C (–58 to 140°F) Electrical Parameters: U=30V, I=200mA, P=0.9W, Ci=27.6nF, Li=0μH
| Flameproof                                                         | Certificate: IECEx CSA 07.0008 Applicable Standard: IEC 60079-0, IEC60079-1 Flameproof for Zone 1, Ex d IIC T6...T4 Gb Enclosure: IP66/IP67 Max. Process Temp.: T4; 120°C (248°F), T5; 100°C (212°F), T6; 85°C (185°F) Amb. Temp.: –50 to 75°C (–58 to 167°F) for T4, –50 to 80°C (–58 to 176°F) for T5, –50 to 75°C (–58 to 167°F) for T6
| **Combination of Approval**                                          | Combination of KU22, FU1 and CU1 **CU1**
## OPTIONAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Accuracy type</td>
<td>Reference accuracy: ±0.025% of Span</td>
<td>HAC</td>
</tr>
<tr>
<td>Painting</td>
<td>Color change Amplifier cover only</td>
<td>P</td>
</tr>
<tr>
<td></td>
<td>Amplifier cover and terminal cover, Munsell 7.5 R4/14</td>
<td>PR</td>
</tr>
<tr>
<td>Coating change</td>
<td>Anti-corrosion coating</td>
<td>X2</td>
</tr>
<tr>
<td>316 SST exterior parts</td>
<td>316 SST zero-adjustment screw and setscrews</td>
<td>HC</td>
</tr>
<tr>
<td>Fluoro-rubber O-ring</td>
<td>All O-rings of amplifier housing. Lower limit of ambient temperature: −15°C (5°F)</td>
<td>HE</td>
</tr>
<tr>
<td>Lightning protector</td>
<td>Transmitter power supply voltage: 10.5 to 32 V DC (10.5 to 30 V DC for intrinsically safe type, 9 to 32 V DC for Fieldbus communication type.) Allowable current: Max. 6000 A (1×40 μs), Repeating 1000 A (1×40 μs) 100 times</td>
<td>A</td>
</tr>
<tr>
<td>Status output</td>
<td>Transistor output (sink type). Low level: 0 to 2 V DC</td>
<td>AL</td>
</tr>
<tr>
<td>Oil-prohibited use</td>
<td>Degrease cleansing treatment</td>
<td>K1</td>
</tr>
<tr>
<td></td>
<td>Degrease cleansing treatment with fluorinated oil filled capsule. Operating temperature: −20 to 80°C (−4 to 176°F)</td>
<td>K2</td>
</tr>
<tr>
<td>Oil-prohibited use</td>
<td>Degrease cleansing and dehydrating treatment</td>
<td>K5</td>
</tr>
<tr>
<td></td>
<td>Degrease cleansing and dehydrating treatment with fluorinated oil filled capsule. Operating temperature: −20 to 80°C (−4 to 176°F)</td>
<td>K6</td>
</tr>
<tr>
<td>Capsule fill fluid</td>
<td>Flourinated oil filled in capsule. Operating temperature: −20 to 80°C (−4 to 176°F)</td>
<td>K3</td>
</tr>
<tr>
<td>Calibration units</td>
<td>P calibration (psi unit)</td>
<td>D1</td>
</tr>
<tr>
<td></td>
<td>bar calibration (bar unit) (See Table for Span and Range Limits.)</td>
<td>D3</td>
</tr>
<tr>
<td></td>
<td>M calibration (kgf/cm² unit)</td>
<td>D4</td>
</tr>
<tr>
<td>Plug option</td>
<td>Long vent: Total length: 119 mm (standard: 34 mm); Total length when combining with optional code K1, K2, K5, and K6: 130 mm. Material: 316 SST U1.</td>
<td>U1</td>
</tr>
<tr>
<td>Gold-plated capsule gasket</td>
<td>Gold-plated 316L SST capsule gasket. Without drain and vent plugs.</td>
<td>GS</td>
</tr>
<tr>
<td>Gold-plated diaphragm</td>
<td>Surface of isolating diaphragms are gold plated, effective for hydrogen permeation. Gold plate thickness: 3 μm</td>
<td>A1</td>
</tr>
<tr>
<td></td>
<td>Gold plate thickness: 10 μm</td>
<td>A2</td>
</tr>
<tr>
<td>Output limits and failure operation</td>
<td>Failure alarm down-scale: Output status at CPU failure and hardware error is −5%, 3.2mA DC or less.</td>
<td>C1</td>
</tr>
<tr>
<td></td>
<td>Failure alarm down-scale: Output status at CPU failure and hardware error is −5%, 3.2mA DC or less.</td>
<td>C2</td>
</tr>
<tr>
<td></td>
<td>Failure alarm up-scale: Output status at CPU failure and hardware error is 110%, 21.6mA or more.</td>
<td>C3</td>
</tr>
<tr>
<td>Body option</td>
<td>Right side high pressure, without drain and vent plugs</td>
<td>N1</td>
</tr>
<tr>
<td></td>
<td>N1 and Process connection, based on IEC61518 with female thread on both sides of cover flange, with blind kidney flanges on back</td>
<td>N2</td>
</tr>
<tr>
<td></td>
<td>N2, and Material certificate for cover flange, diaphragm, capsule body, and blind kidney flange</td>
<td>N3</td>
</tr>
<tr>
<td>Wired tag plate</td>
<td>316 SST tag plate wired onto transmitter</td>
<td>N4</td>
</tr>
<tr>
<td>Data configuration at factory</td>
<td>Data configuration for HART communication type Software damping, Descriptor, Message</td>
<td>CA</td>
</tr>
<tr>
<td></td>
<td>Data configuration for BRAIN communication type Software damping</td>
<td>CB</td>
</tr>
<tr>
<td>Advanced diagnostics</td>
<td>Multi-sensing process monitoring • Impulse line blockage detection • Heat trace monitoring</td>
<td>DG6</td>
</tr>
<tr>
<td>Material certificate</td>
<td>Cover flange</td>
<td>M01</td>
</tr>
<tr>
<td></td>
<td>Cover flange, Process connector</td>
<td>M11</td>
</tr>
<tr>
<td></td>
<td>Cover flange, Diaphragm, Capsule body</td>
<td>MA1</td>
</tr>
<tr>
<td></td>
<td>Cover flange, Process connector, Diaphragm, Capsule body</td>
<td>MC1</td>
</tr>
<tr>
<td></td>
<td>Cover flange, Bolt and Nut for cover flange, Diaphragm, Capsule body, Vent and Drain plugs, Vent screw, Capsule gasket</td>
<td>MG1</td>
</tr>
<tr>
<td></td>
<td>Cover flange, Process connector, Bolt and nut for cover flange, Bolt for process connector, Diaphragm, Capsule body, Vent and Drain plug, Vent screw, Capsule gasket</td>
<td>MH1</td>
</tr>
<tr>
<td>Pressure test/Leak test certificate</td>
<td>Test Pressure: 500 kPa (2000 inh2O) Nitrogen Gas</td>
<td>T11</td>
</tr>
<tr>
<td></td>
<td>Test Pressure: 3.5 MPa (500 psi) Retention time: one minute</td>
<td>T01</td>
</tr>
<tr>
<td></td>
<td>Test Pressure: 16 MPa (2300 psi)</td>
<td>T12</td>
</tr>
<tr>
<td>Parameter list</td>
<td>List of setting and adjustment parameters</td>
<td>YP</td>
</tr>
<tr>
<td>Functional safety(SIL)</td>
<td>Low temperature expansion of functional safety Amb.Temp.: −55 to 85°C</td>
<td>SLT</td>
</tr>
</tbody>
</table>
*1: Not applicable with color change option. Not applicable for amplifier housing code 2.
*2: When this option code is specified, check terminals are not available. Not applicable for output signal code F and G.
*3: Applicable for wetted parts material code S, M, H and T.
*4: The unit of MWP (Max. working pressure) on the name plate of a housing is the same unit as specified by option codes D1, D3, and D4.
*5: Applicable for vertical impulse piping type (installation code 3 or 7) and wetted parts material code S, M, H and T.
*6: Applicable for output signal codes D, E and J. The hardware error indicates faulty amplifier or capsule.
*7: Applicable for wetted parts material code S, M, H and T; process connection codes 3, 4, and 5; installation code 9; and mounting bracket code N. Process connection faces on the other side of zero adjustment screw.
*8: Also see ‘Ordering Information’.
*9: Not applicable for amplifier housing code 2 and 3.
*10: 316 or 316L SST. The specification is included in amplifier code 2.
*11: Applicable for wetted parts material code S; process connection code 0 and 5; and installation code 8 and 9. Not applicable for option code U1, N2, N3 and M11. No PTFE is used for wetted parts.
*12: Applicable for wetted parts material code S or L. /A2 is not applicable with FM approval.
*13: Applicable only for output signal code E and J.
*14: The change of pressure fluctuation is monitored and then detects the impulse line blockage. See TI 01C25A31-01E for detailed technical information required for using this function.
*15: Material traceability certification, per EN 10204 3.1B.
*16: Applicable for process connections code 0 and 5.
*17: Applicable for process connections code 1, 2, 3, and 4.
*18: Applicable for capsule code H.
*19: Applicable for capsule code A.
*20: Applicable for capsule code B.
*21: Dry nitrogen gas is used for oil-prohibited use (option codes K1, K2, K5, and K6).
*22: The unit on the certificate is always Pa unit regardless of selection of option code D1, D3 or D4.
*23: Refer to “PERFORMANCE SPECIFICATIONS.” Applicable for wetted parts material code S or L. Not applicable for option code /A1, /A2, /K2, /K3 and /K6.
*24: Not applicable with plug option code UN.
*25: Not applicable for installation code -U.
*26: Not applicable with option code N1, N2, N3 and GS.
*27: Applicable for option code UN and N1.
*28: Not applicable for output signal code F, G, and process connections code for diaphragm seal system.
*29: Not applicable with process connections code for diaphragm seal system B and G.
*30: Applicable for option code UN, N1, and GS.
*31: Applicable only for output signal code D, E and J.

**OPTIONAL SPECIFICATIONS (FOR DIAPHRAGM SEAL SYSTEM)**

The table below shows the code dedicated for the combination with a diaphragm seal system. It is only available when the transmitter is ordered in combination with a diaphragm seal system. Please also refer to GS 01C25W01-01EN

<table>
<thead>
<tr>
<th>Item</th>
<th>Descriptions</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capsule fill fluid</td>
<td>Fluorinated oil filled in capsule</td>
<td>K13</td>
</tr>
<tr>
<td></td>
<td>Operating temperature −20 to 80°C (−4 to 176°F)</td>
<td></td>
</tr>
<tr>
<td>Material certificate</td>
<td>Bolt and nut for cover flange</td>
<td>M51</td>
</tr>
</tbody>
</table>
**DIMENSIONS**

- Vertical Impulse Piping Type
  Wetted Parts Material Code: S, L

![Diagram of Vertical Impulse Piping Type]

- Horizontal Impulse Piping Type (Installation code 9)
  Wetted Parts Material Code: S, L

![Diagram of Horizontal Impulse Piping Type]

---

*1: When Installation code 2, 3, or 8 is selected, high and low pressure side on the above figure are reversed. (i.e. High pressure side is on the right side.)

*2: When option code K1, K2, K5, or K6 is selected, add 15 mm (0.59 inch) to the value in the figure.

*3: Not available when option code GS is specified.

*4: When electrical connection code 7 or C is selected, a blind plug is protruded up to 8 mm (0.31 inch) from the conduit connection.

*5: When option code UN is specified, Vent/Drain holes and plugs are not applicable.
**Vertical Impulse Piping Type**

Wetted Parts Material Code: H, M, T, A, B, D, W

---

**Horizontal Impulse Piping Type (Installation code 9)**

Wetted Parts Material Code: H, M, T, A, B, D, W

---

*1: When Installation code 2, 3, or 8 is selected, high and low pressure side on the above figure are reversed.
(i.e. High pressure side is on the right side.)

*2: When Option code K1, K2, K5, or K6 is selected, add 15 mm (0.59 inch) to the value in the figure.

*3: When electrical connection code 7 or C is selected, a blind plug is protruded up to 8 mm (0.31 inch) from the conduit connection.

*4: When option code UN is specified, Vent/Drain holes and plugs are not applicable.
• Universal Flange (INSTALLATION CODE ‘U’)

![Diagram of Universal Flange](F08E.ai)

*1: When Option code K1, K2, K5, or K6 is selected, add 15 mm (0.59 inch) to the value.
*2: When electrical connection code 7 or C is selected, a blind plug is protruded up to 8 mm (0.31 inch) from the conduit connection.

• Bottom Process Connection (Installation code B)

![Diagram of Bottom Process Connection](F09E.ai)

*1: A transmitter with SST housing is not applicable for mounting to horizontal 2-inch pipe.
*2: When electrical connection code 7 or C is selected, a blind plug is protruded up to 8 mm (0.31 inch) from the conduit connection.
*3: When option code UN is specified, Vent holes and plugs are not applicable.
● Terminal Configuration

Terminal ①

Terminal ②

• Terminal Wiring

<table>
<thead>
<tr>
<th>Connection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog output</td>
<td>EJX electrical terminal</td>
</tr>
<tr>
<td>CHECK +</td>
<td>24V DC</td>
</tr>
<tr>
<td>ALARM –</td>
<td>250Ω</td>
</tr>
<tr>
<td>Distributor</td>
<td></td>
</tr>
</tbody>
</table>

*1: Either A or +

If shield cable is not used, communication is not possible.

Use two-wire separately shielded cables.

• Wiring Example for Analog Output and Status Output

**Connection**

**Description**

Analog output | EJX electrical terminal |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPLY +</td>
<td></td>
</tr>
<tr>
<td>CHECK A</td>
<td>24V DC</td>
</tr>
<tr>
<td>ALARM –</td>
<td>250Ω</td>
</tr>
<tr>
<td>Distributor</td>
<td></td>
</tr>
</tbody>
</table>

*1: Either A or +

Analog and status output (when /AL is specified)

If shield cable is not used, communication is not possible.

Use two-wire separately shielded cables.

**Connection**

**Description**

Analog output | EJX electrical terminal |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPLY +</td>
<td></td>
</tr>
<tr>
<td>ALARM A</td>
<td></td>
</tr>
</tbody>
</table>

*1: Either A or +

External power supply 30V DC, 120mA max

AC power supply

Magnetic valve

Distributor

Use two-wire separately shielded cables.

**Connection**

**Description**

Analog output | EJX electrical terminal |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPLY +</td>
<td></td>
</tr>
<tr>
<td>ALARM A</td>
<td></td>
</tr>
</tbody>
</table>

*1: Either A or +

External power supply 30V DC, 120mA max

AC power supply

Magnetic valve

Distributor

Use two-wire separately shielded cables.

**Connection**

**Description**

Analog output | EJX electrical terminal |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPLY +</td>
<td></td>
</tr>
<tr>
<td>ALARM A</td>
<td></td>
</tr>
</tbody>
</table>

*1: Either A or +

External power supply 30V DC, 120mA max

AC power supply

Magnetic valve

Distributor

Use two-wire separately shielded cables.

**Connection**

**Description**

Analog output | EJX electrical terminal |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPLY +</td>
<td></td>
</tr>
<tr>
<td>ALARM A</td>
<td></td>
</tr>
</tbody>
</table>

*1: Either A or +

External power supply 30V DC, 120mA max

AC power supply

Magnetic valve

Distributor

Use two-wire separately shielded cables.

**Connection**

**Description**

Analog output | EJX electrical terminal |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPLY +</td>
<td></td>
</tr>
<tr>
<td>ALARM A</td>
<td></td>
</tr>
</tbody>
</table>

*1: Either A or +

External power supply 30V DC, 120mA max

AC power supply

Magnetic valve

Distributor

Use two-wire separately shielded cables.
<Ordering Information> "◊"
Specify the following when ordering

For output signal code →J, refer to GS 01C25T01-01EN.

1. Model, suffix codes, and option codes
2. Calibration range and units
   1) Calibration range can be specified with range value specifications up to 5 digits (excluding any decimal point) for low or high range limits within the range of -32000 to 32000. When reverse range is designated, specify Lower Range Value (LRV) as greater than Upper Range Value (URV).
   2) Specify only one unit from the table, ‘Factory Settings’ when shipped.
3. Display scale and units (for transmitters equipped with integral indicator only)
   Specify either 0 to 100 % or engineering unit scale and ‘Range and Unit’ for engineering units scale:
   Scale range can be specified with range limit specifications up to 5 digits (excluding any decimal point) for low or high range limits within the range of -32000 to 32000. The unit display consists of 6-digit, therefore, if the specified unit is longer than 7 characters excluding ‘/’, the first 6 characters will be displayed on the unit display.
4. Tag Number (if required)
   Specified characters (up to 16 characters for BRAIN, 22 characters for HART, or 16 characters for /N4 tag) are engraved on the stainless steel tag plate fixed on the housing.
5. SOFTWARE TAG (for HART only. If required)
   Specified characters (up to 32 characters) are set as “Tag” (the first 8 characters) and “Long tag”*1 (32 characters) in the amplifier memory.
   When the “SOFTWARE TAG” is not specified, specified “TAG NO” is set as “Tag” (the first 8 characters) and “Long tag”*1 (22 characters) in the amplifier memory.
   *1: applicable only when HART 7 is selected.
6. Other factory configurations (if required)
   Specifying option code CA or CB will allow further configuration at factory. Following are configurable items and setting range.
   [CA : For HART communication type]
   1) Descriptor (up to 16 characters)
   2) Message (up to 30 characters)
   3) Software damping in second (0.00 to 100.00)
   [CB : For BRAIN communication type]
   1) Software damping in second (0.00 to 100.00)

<Factory Setting> "◊"

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<thead>
<tr>
<th>Tag number</th>
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<tr>
<td>Software damping *1</td>
<td>'2.00 s’ or as specified in order</td>
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<tr>
<td>Calibration range lower range value</td>
<td>As specified in order</td>
</tr>
<tr>
<td>Calibration range upper range value</td>
<td>As specified in order</td>
</tr>
<tr>
<td>Calibration range units</td>
<td>Selected from mmH2O, mmH2O(68°F), mmH2O(760 mmHg), mmHg, Pa, hPa, kPa, MPa, mbar, bar, gf/cm², kgf/cm², inH2O, inH2O(68°F), inHg, ftH2O, ftH2O(68°F) or psi. (Only one unit can be specified)</td>
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<tr>
<td>Display setting</td>
<td>Designated value specified in order. (% or user scaled value.)</td>
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<Material Cross Reference>

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<Information on EU WEEE Directive>
EU WEEE (Waste Electrical and Electronic Equipment) Directive is only valid in the EU.
This instrument is intended to be sold and used only as a part of equipment which is excluded from WEEE Directive, such as large-scale stationary industrial tools, a large-scale fixed installation and so on, and, therefore, subjected to the exclusion from the scope of the WEEE Directive. The instrument should be disposed of in accordance with local and national legislation/regulations.