General Specifications

EJX210B Flange Mounted Differential Pressure Transmitter



GS 01C27C01-01EN

The high performance flange mounted differential pressure transmitter EJX210B features single crystal silicon resonant sensor and is suitable to measure levels of densities of solidifying or precipitating liquids. EJX210B transmits not only process variables but also the setting parameters using wireless signal. The transmitter runs on internal batteries, and the installation cost can be decreased since hard-wiring is not required. The communication protocol is compliant with ISA100.11a protocol specifications.



• Long Life Battery Design

Ultra low current consumption design using two high capacity lithium-thionyl chloride batteries provide wireless operation for years.

Security Assured Wireless Network Joining Infrared communication between the devices for wireless network configuration and parameter setting.

Quick Update Time

Selectable from 0.5 second to 60 minutes for measured process value to publish wirelessly.

■ STANDARD SPECIFICATIONS

■ WIRELESS SPECIFICATIONS

Communication protocol: ISA100.11a protocol

Data rate: 250 kbps

Frequency: 2400 - 2483.5 MHz license free ISM band

Radio security: AES 128 bit codified

RF Transmitter power: Max. 11.6 dBm (fixed)
Antenna: +2 dBi Omni directional monopole type
For amplifier housing code 8 and 9, separately sold remote antenna and antenna cables can be used.

POWER SUPPLY SPECIFICATIONS

Battery:

Use the dedicated battery pack.

Rated voltage: 7.2 V Rated capacity: 19 Ah

■ SPAN AND RANGE LIMITS

| | asurement an/Range | kPa | inH ₂ O(/D1) | mbar(/D3) | mmH ₂ O(/D4) |
|---|-----------------------|-------------|-------------------------|---------------|-------------------------------|
| М | Span | 1 to 100 | 4 to 400 | 10 to 1000 | 100 to 10000 |
| | Range | -100 to 100 | -400 to 400 | -1000 to 1000 | -10000 to 10000 |
| Н | Span | 5 to 500 | 20 to 2000 | 50 to 5000 | 0.05 to 5 kgf/cm ² |
| | Range | -500 to 500 | -2000 to 2000 | -5000 to 5000 | -5 to 5 kgf/cm ² |
| | , and the second | | | | T01E.ai |





■ PERFORMANCE SPECIFICATIONS

Zero-based calibrated span, linear output, wetted parts material code SW for 3-inch flange flush type, fill fluid code B, and in the continuous measurement mode.

Specification Conformance

EJX series ensures specification conformance to at least $\pm 3\sigma$.

Reference Accuracy of Calibrated Span

(includes terminal-based linearity, hysteresis, and repeatability)

| ment span | Н |
|--------------|-----------------------------------|
| X ≤ span | ±0.075% of Span |
| X > span | ±(0.025+0.01 URL/span)% of Span |
| (| 100 kPa (400 inH ₂ O) |
| range limit) | 500 kPa (2000 inH ₂ O) |
| | X ≤ span X > span |

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| Measurement span | | М | | |
|-------------------------|----------|----------------------------------|--|--|
| Reference | X ≤ span | ±0.075% of Span | | |
| accuracy | X > span | ±(0.025+0.005 URL/span)% of Span | | |
| X | | 10 kPa (40 inH ₂ O) | | |
| URL (upper range limit) | | 100 kPa (400 inH ₂ O) | | |

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Ambient Temperature Effects per 28°C (50°F) Change

| Capsule | Effect |
|---------|----------------------------|
| Н | ±[0.14% Span +0.028% URL] |
| M | ±[0.224% Span +0.056% URL] |



Static Pressure Effects per 0.69 MPa (100 psi) Change

Span Effects

M and H capsules ±0.028% of span

Effect on Zero

M and H capsules ±0.007% of URL

Stability

±0.1 % of URL per 12 months

Battery Pack

Battery pack with long life lithium-thionyl chloride batteries. With the intrinsically safe type, the battery pack is replaceable in hazardous area.

Typical battery life is 10 years at 60 seconds update time or 4 years at 10 seconds update time in the following conditions.*

• Ambient temperature: 23±2°C

· Device role: IO mode

• LCD display: off

* Environmental condition such as vibration may affect the battery life.

Response Time (Differential pressure)

M and H capsule: 180 ms (approximate value at normal temperature)

Including dead time of 100 ms (nominal)

Static Pressure Signal Range and Accuracy

(Includes terminal-based linearity, hysteresis, and repeatability)

Range

Upper Range Value and Lower Range Value of the statice pressure can be set in the range between 0 and Maximum Working Pressure (MWP*). The upper range value must be greater than the lower range value. Minimum setting span is 0.5 MPa (73 psi).

*: Maximum Working Pressure (MWP) is within flange rating pressure.

Accuracy

Absolute Pressure

1 MPa or higher: ±0.2% of span

Less than 1 MPa: ±0.2%×(1 MPa/span) of span

Gauge Pressure Reference

Gauge pressure reference is 1013 hPa (1 atm)

Note: Gauge pressure variable is based on the above fixed reference and thus subject to be affected by the change of atomospheric pressure.

■ FUNCTIONAL SPECIFICATIONS

Output

Wireless (ISA100.11a protocol) 2.4 GHz signal. Output mode, linear or square root, is selectable.

Update Time

| Measurement mode | Differential pressure | Pressure |
|------------------|-----------------------------|-----------------------------|
| Continuous | 100 ms | 100 ms |
| Intermittent | 0.5 to 3600 s selectable | 0.5 to 3600 s selectable |

For amplifier housing code 7:

The transmitter shifts to the countinuous mode when the update time is set to 1 second.

Minimum update time is 1 second.

For amplifier housing code 8 and 9:

The transmitter shifts to the countinuous mode when the update time is set to 0.5 second.

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 range-setting 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.; Differential pressure, static pressure, temperature. See also "Factory Setting."

Self Diagnostics

Capsule failure, amplifier failure, configuration error, battery alarm, wireless communication alarm and over-range error for process variables.

Software Download Function

Software download function permits to update wireless field device software via ISA100.11a wireless communication.

Power Supply

2x primary lithium-thionyl chloride batteries With battery case (batteries sold separately)

■ 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) LCD visible range (Note: The ambient temperature limits must be within the fill fluid operating temperature range, see table 1.)

Process Temperature Limits

High pressure side: See table 1.

Low pressure side: 40 to 120°C (-40 to 248°F)

Ambient Humidity Limits

0 to 100% RH

Working Pressure Limits

See table 1.

For atmospheric pressure or below, see figure 1.

Table 1. Process temperature, Ambient temperature, and Working pressure

| | Code | Process temperature *1*2 | Ambient temperature *3 | Working pressure |
|--------------|------|----------------------------------|------------------------------|--|
| Silicone oil | А | -10 to 250°C *4 (14 to 482°F) | –10 to 85°C (14 to 185°F) | 2.7 kPa abs (0.38 psi abs) to flange rating pressure |

*1: See figure 1 'Working Pressure and Process Temperature.'

*2: Indicates high pressure side value. The process temperature limit for low pressure side is –40 to 120°C (–40 to 248°F).

*3: This ambient temperature is the transmitter ambient temperature.

*4: In case of wetted parts material code TW (Tantalum), process temperature limit is up to 200°C (392°F).

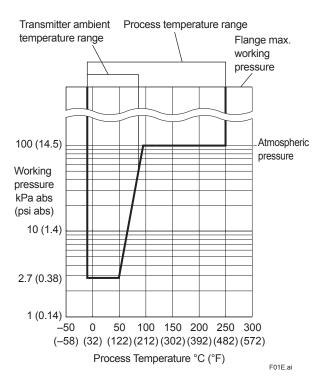


Figure 1. Working Pressure and Process Temperature

■ REGULATORY COMPLIANCE STATEMENTS

This device contains the wireless module. The wireless module satisfies the following standards.

* Please confirm that a installation region fulfills a standards, require additional regulatory information and approvals, contact to Yokogawa Electric Corporation.

EMC Conformity Standards

EN61326-1 Class A, Table 2 (For use in industrial locations), EN61326-2-3

R&TTE Conformity Standards C€

ETSI EN 300 328, ETSI EN 301 489-17, EN61010-1, EN62311

• Indoor/Outdoor use

| AT | BE | BG | CY | CZ | DK | |
|----|----|----|----|----|----|--|
| EE | FI | FR | DE | GR | HU | |
| ΙE | IT | LV | LT | LU | MT | |
| NL | PL | PT | RO | SK | SI | |
| ES | SE | GB | IS | LI | NO | |
| СН | | | | | | |

European Pressure Equipment Directive 97/23/EC Sound Engineering Practice

Regulation Conformity of the Wireless Module

- FCC Approval
- IC Approval

■ PHYSICAL SPECIFICATIONS

Process connections

High pressure side:

Flange connected See the following table.

Table 2. Flange size and rating

| Process connection style | Size | Flange |
|--------------------------|---------------------------------|---|
| Flush type | 3-inch 2-inch 1 1/2-inch* | JIS 10K, 20K ANSI Class 150, 300 JPI Class 150, 300 DIN PN10/16, 25/40 |
| Extended type | 4-inch 3-inch | JIS 10K, 20K ANSI Class 150, 300 JPI Class 150, 300 DIN PN10/16, 25/40 |

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*: Flushing connection rings are always attached.

Low pressure side:

Threaded

See "MODEL AND SUFFIX CODES."

Process connection of cover flange: IEC61518

Gasket Contact Surface

See the following table.

Table 3. Gasket contact surface

| FI | JIS/JPI/DIN | | ANSI | | |
|--|---------------------|-----|------|-----|-----|
| Matted a substitution of the substitution of t | | SW, | HW, | SW, | HW, |
| | | SE, | TW | SE, | TW |
| Wetted parts m | WW, | | WW, | | |
| | | WE | | WE | |
| Gasket contact | Serration*1 | _ | | • | _ |
| Surface | Flat (No serration) | • | • | • | • |

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•: Applicable, —: Not applicable

*1: ANSI B16.5

Wetted Parts Material

High pressure side:

Refer to "MODEL AND SUFFIX CODES"

Flushing connection ring (optional)

Ring and Vent/Drain plugs

Refer to "MODEL AND SUFFIX CODES"

(Spiral) gasket for transmitter side

316SST (Hoop), PTFE Teflon (Filler)

Low pressure side:

Diaphragm, Cover Flange, Process Connector,

Capsule Gasket, and Vent/Drain plug

Refer to "MODEL AND SUFFIX CODES"

Process connector gasket

PTFE Teflon

Non-wetted Parts Material

Process Flange

Refer to "MODEL AND SUFFIX CODES"

Bolting

B7 carbon steel, 316L SST, or 660 SST

Housina

Low copper cast aluminum alloy with polyurethane, mint-green paint (Munsell 5.6BG 3.3/2.9 or its equivalent)

Degrees of Protection

IP66/IP67, NEMA4X

Cover O-rings

Buna-N

Name plate and tag

304 SST tag plate wired onto transmitter.

Fill Fluid

Silicone oil, Fluorinated oil (optional)

Weight

Flush type

3-inch ANSI Class150 flang: 11.1 kg (24.2 lbs) Without battery pack and process connector.

Extended type

4-inch ANSI Class150 flange, extension length (X2)=

100 mm: 15.6 kg (34.4 lbs)

Without battery pack and process connector.

< Related Instruments>

Field Wireless System: Refer to GS 01W01A01-01EN Field Wireless Integrated Gateway YFGW710:

Refer to GS 01W01F01-01EN

Field Wireless Management Station YFGW410:

GS 01W02D01-01EN

Field Wireless Access Point YFGW510:

GS 01W02E01-01EN

Field Wireless Media Converter YFGW610:

GS 01W02D02-01EN

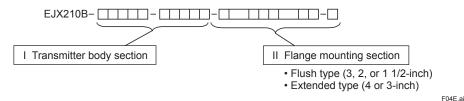
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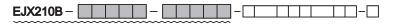
■ MODEL AND SUFFIX CODES

Instruction

The model and suffix codes for EJX210B consist of two parts; a transmitter body section (I) and a flange mounting section (II). This specification sheet introduces these two parts separately. The transmitter body section is shown in one table, and the flange mounting section specifications are listed according to the flange size and the process connection style. First select the model and suffix codes of transmitter body section and then continue on one of the flange mounting section.



I. Transmitter body section



| Model | | Suffix codes | Description | | |
|---|--------------|---|--|--|--|
| EJX210B | | | Flange mounted differential pressure transmitter | | |
| Output signal | -L · · · · · | | Wireless communication(ISA100.11a protocol) | | |
| Measurement | M··· | | 1 to 100 kPa (4 to 400 inH ₂ O) | | |
| span (Capsule) | H · · · · | | 5 to 500 kPa (20 to 2000 inH ₂ O) | | |
| Low pressure sid | le S·· | | Refer to "Low Pressure Side Wetted Parts Materials" Table below. | | |
| wetted parts mat | erial | | | | |
| Low pressure s | ide 0 | | without process connector (Rc 1/4 female on the cover flange) | | |
| Process connec | ctions 1 | | with Rc 1/4 female process connector | | |
| | 2 | | with Rc 1/2 female process connector | | |
| | 3 | | with 1/4 NPT female process connector | | |
| | 1 - | | with 1/2 NPT female process connector | | |
| | ▶ 5 | | without process connector (1/4 NPT female on the cover flange) | | |
| Coverflange bolts J · · · · · · · · · · · | | J · · · · · · · · · · · · · · · · · · · | B7 carbon steel | | |
| and nuts materi | al | G · · · · · · · · · · · · · · · · · · | 316L SST | | |
| | | C · · · · · · · · · · · · · · · · · · · | 660 SST | | |
| Installation | | -9 · · · · · · · · | Horizontal piping type and left side high pressure | | |
| Amplifier housing | ng | 7 | Cast aluminum alloy with integral antenna | | |
| | | 8 | Cast aluminum alloy with detachable antenna (2 dBi)*2 | | |
| | | 9 | Cast aluminum alloy without antenna (N connector)*1*2 | | |
| Electrical conn | ection | J · · · · · · · | No electrical connection, battery-powered type (battery case only; battery cells not | | |
| | | | included) | | |
| Integral Indicate | or | D · · · · · · | Digital indicator | | |
| _ | | N · · · · · | Always N | | |
| Flange mountin | g section | | - Continued on flange mounting section (II) | | |

The '**>**' marks indicate the most typical selection for each specification.

Table. Low Pressure Side Wetted Parts Materials

| w pressure side wetted parts material code | Cover flange and process connector | Capsule | Capsule gasket | Drain/Vent plug |
|--|------------------------------------|--|------------------------|-----------------|
| S# | ASTM CF-8M*1 | Hastelloy C-276*2 (Diaphragm) 316L SST (Others) | Teflon-coated 316L SST | 316 SST |

^{*1:} Cast version of 316 SST. Equivalent to SCS14A.

The '#' marks indicate the construction materials conform to NACE material recommendations per MR01-75 (2003). For the use of 316 SST material, there may be certain limitations for pressure and temperature. Please refer to NACE standards for details.

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^{*1:} Order the antenna separately from accessary option.

^{*2:} Remote antenna cables can be attached. Order separately from accessary option.

^{*2:} Hastelloy C-276 or ASTM N10276

II.Flange mounting section (Flush type)

• Precess flange size: 3-inch (80 mm)

| EJX210B- | | |]-W3 | | |
|----------|--|--|------|--|--|
|----------|--|--|------|--|--|

| Model | Suffi | x codes | | | | Description |
|----------------|-----------------|-------------|----|---|-------------------|--|
| EJX210B - | | | | | Transmitter bod | y section (I) |
| Process conn | nection style - | w · · · · · | | | Flush type | |
| Flange rating | | J1 · · · · | | | JIS 10K | |
| | | J2 · · · · | | | JIS 20K | |
| | | 1 | | | ANSI class 150 | |
| | | 1 | | | ANSI class 300 | |
| | | | | | JPI class 150 | |
| | | | | | JPI class 300 | |
| | | | | | DIN PN10/16 | |
| | | | | | DIN PN25/40 | |
| Flange size | | - | | | 3-inch (80 mm) | |
| Flange mater | rial | | | | JIS S25C | |
| | | . - | | | 304 SST*9 | |
| | | C · | | | 316 SST*9 | |
| Gasket conta | ct surface *1 | 1 | | | Serration (for Al | NSI flange with wetted parts material SW only) |
| | | 2 | | | Flat (no serratio | n) |
| Wetted parts | material | | | | [Diaphragm] | [Others] |
| (high pressure | e side) *8 | | | | 316L SST # | 316 SST # |
| | | | | | Hastelloy C-276 | , |
| | | | TW | | Tantalum*7 | Tantalum* ⁷ |
| Flushing conr | nection ring *2 | | | | [Ring] | [Drain/Vent plugs] [Material] |
| | | | " | | None | |
| | | | Α | | Straight type | R 1/4 connections*5 316 SST # |
| | | | В | | Straight type | 1/4 NPT connections 316 SST # |
| Extension | | | | 0 | None | |
| Fill fluid | | | | | l ' | [Process temperature] *3 [Ambient temperature] |
| | | | | | | −10 to 250°C*4 |
| Option codes | 3 | | | | /□ Optional spe | cification |

The '▶' marks indicate the most typical selection for each specification. Example: EJX210B-LMS5G-97JDN-WA13B1SW00-A/□

- *1: See Table 3 'Gasket contact surface.'
- *2: When specified flushing connection ring code A or B, exclusive gasket is provided for transmitter side.
- *3: Indicates the process temperature limit of high pressure side. The process temperature limit for low pressure side is –40 to 120°C.
- *4: In case of wetted parts material code **TW** (Tantalum), the process temperature limit is -10 to 200°C.
- *5: Not applicable for gasket contact surface code 1.
- *6: Hastelloy C-276 or ASTM N10276
- *7: Not applicable for flushing connection ring code A and B.
- *8: \(\times \) 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.

*9: Forged version of the material may be used.

The '#' marks indicate the construction materials conform to NACE material recommendations per MR01-75 (2003). Please refer to NACE standards for details.

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II. Flange mounting section (Flush type)

• Precess flange size: 2-inch (50 mm)

| | _ | | | _ |
|------------|------|---|--|---|
| L INJAND | | 2 | | 4 |
| EJAZ IUD - | | | | 4 |
| | | | | |

| Model | Suff | fix codes | | | | Description | | | | |
|--------------|------------------|--------------|------------|-------------|---------------------|---------------------------|-----------------------|--|--|--|
| EJX210B | | | | | Transmitter body s | section (I) | | | | |
| Process cor | nnection style | -W · · · · · | | | Flush type | | | | | |
| Flange ratin | g | J1 · · · · | | | JIS 10K | | | | | |
| | | J2 · · · · | | | JIS 20K | | | | | |
| | | A1 · · · · | | | ANSI class 150 | | | | | |
| | | | | | ANSI class 300 | | | | | |
| | | | | | JPI class 150 | | | | | |
| | | | | | JPI class 300 | | | | | |
| | | D2 · · · · | | | DIN PN10/16 | | | | | |
| | | | | | DIN PN25/40 | | | | | |
| Flange size | | | | | 2-inch (50 mm) | | | | | |
| Flange mate | erial | | | | JIS S25C | | | | | |
| | | ▶ B · · | | | 304 SST*9 | | | | | |
| | | | | | 316 SST*9 | | | | | |
| Gasket cont | act surface *1 | 1 | | | Serration (for ANS | I flange with wetted part | s material WW only) | | | |
| | | 2 | | | Flat (no serration) | | | | | |
| Wetted parts | s material | | | | [Diaphragm] | [Others] | | | | |
| (high pressu | ıre side) *8 | | ww | | Hastelloy C-276*6 | # 316 SST # | | | | |
| | | | HW | | Hastelloy C-276*6 | # Hastelloy C | C-276*6# | | | |
| | | | TW | | Tantalum*7 | Tantalum*7 | | | | |
| Flushing co | nnection ring *2 | | | | [Ring] | [Drain/Vent plugs] | [Material] | | | |
| | | | ▶ 0 | | None | _ | _ | | | |
| | | | Α | | Straight type | R 1/4 connections*5 | 316 SST# | | | |
| | | | В | | Straight type | 1/4 NPT connections | 316 SST # | | | |
| Extension | | | | 0 · · · · · | None | | | | | |
| Fill fluid | | | | | [Pr | rocess temperature] *3 | [Ambient temperature] | | | |
| | | | | -A · · · | Silicone oil -1 | 0 to 250°C*4 | –10 to 85°C | | | |
| Option code | es | | | | /□ Optional specif | fication | | | | |

The '▶' marks indicate the most typical selection for each specification. Example: EJX210B-LMS5G-97JDN-WA12B1WW00-A/□

- *1: See Table 3 'Gasket contact surface.'
- *2: When specified flushing connection ring code A or B, exclusive gasket is provided for transmitter side.
- *3: Indicates the process temperature limit of high pressure side.

 The process temperature limit for low pressure side is -40 to 120°C.
- *4: In case of wetted parts material code **TW** (Tantalum), the process temperature limit is -10 to 200°C.
- *5: Not applicable for gasket contact surface code 1.
- *6: Hastelloy C-276 or ASTM N10276
- *7: Not Applicable for flushing connection ring code A and B.
- *8: \(\Delta\) 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.

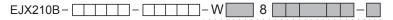
*9: Forged version of the material may be used.

The '#' marks indicate the construction materials conform to NACE material recommendations per MR01-75 (2003). Please refer to NACE standards for details.

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II. Flange mounting section (flush type)

• Precess flange size: 1 1/ 2-inch (40 mm)



| Model | Suf | fix code | es | | | | | | Description | |
|--------------|------------------|----------|-----|----------|--------------|---------|------------------|---------|----------------------|-----------------------|
| EJX210B | | | | | | | Transmitter bo | dy sed | ction (I) | |
| Process cor | nnection style | -W · · · | | | | | Flush type | | | |
| Flange ratin | g | J1 · | | | | | JIS 10K | | | |
| | | J2 · | | ٠. | | | JIS 20K | | | |
| | | A1 · | | | | | ANSI class 150 |) | | |
| | | A2 · | | | | | ANSI class 300 |) | | |
| | | P1 · | | | | | JPI class 150 | | | |
| | | | | | | | JPI class 300 | | | |
| Flange size | | 8 - | | | | | 1 1/2-inch (40 | mm) | | |
| Flange mate | erial | | A·· | | | | JIS S25C | | | |
| | | ▶ | В·· | | | | 304 SST*7 | | | |
| | | | C·· | | | | 316 SST*7 | | | |
| Gasket cont | tact surface *1 | | 1 | | | | Serration (for A | NSI f | lange only) | |
| | | | 2 | | | | Flat (no serrati | on) | | |
| Wetted part | s material | | | | | | [Diaphragm] | | [Others] | |
| (high pressu | ure side) *6 | | | W۷ | v · · | | Hastelloy C-27 | '6*5# | 316 SST# | |
| Flushing co | nnection ring *2 | | | | | | [Ring] | | [Drain/Vent plugs] | [Material] |
| | | | • | • | C · · · | | Reducer type | | R 1/4 connections*4 | 316 SST # |
| | | | | |) | | Reducer type | | 1/4 NPT connections | 316 SST # |
| Extension | | | | | 0 · | | None | | | |
| Fill fluid | | | | | | | | [Proc | cess temperature] *3 | [Ambient temperature] |
| | | | | | - | Α · · · | Silicone oil | -10 t | to 250°C | –10 to 85°C |
| Option code | es | | | | | | /□ Optional sp | ecifica | ation | |

The '▶' marks indicate the most typical selection for each specification. Example: EJX210B-LMS5G-97JDN-WA18B1WWC0-A/□

- *1: See Table 3 'Gasket contact surface.'
- *2: When specified flushing connection ring code C or D, exclusive gasket is provided for transmitter side.
- *3: Indicates the process temperature limit of high pressure side. The process temperature limit for low pressure side is –40 to 120°C.
- *4: Not applicable for gasket contact surface code 1.
- *5: Hastelloy C-276 or ASTM N10276
- *6: \(\Delta\) 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.

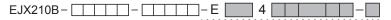
*7: Forged version of the material may be used.

The '#' marks indicate the construction materials conform to NACE material recommendations per MR01-75 (2003). Please refer to NACE standards for details.

T09E.ai

II. Flange mounting section (Extended type)

• Precess flange size: 4-inch (100 mm)



| Model | Suffi | x codes | | | | | Description | l |
|--------------|------------------|-------------|-------|----------|------------------|--------------|-----------------|-----------------------|
| EJX210B | · | | | | Transmitter be | ody section | (I) | |
| Process cor | nnection style - | E · · · · · | | | Extended type | Э | | |
| Flange ratin | g | J1 · · · · | | | JIS 10K | | | |
| | | | | | JIS 20K | | | |
| | | | | | ANSI class 15 | | | |
| | | | | | ANSI class 30 | | | |
| | | | | | JPI class 150 | | | |
| | | P2 · · · · | | | JPI class 300 | | | |
| | | 1 | | | DIN PN10/16 | | | |
| | | 1 | | | DIN PN25/40 | | | |
| Flange size | | 4 · · · | | | 4-inch (100 m | m) | | |
| Flange mate | erial | Α. | | | JIS S25C | | | |
| | | | | | 304 SST*4 | | | |
| | | | | | 316 SST*4 | | | |
| Gasket con | tact surface *1 | ١. | | | Serration (for | ANSI flange | e only) | |
| | | 2 | 2 | | Flat (no serra | tion) | | |
| Wetted part | | | | | [Diaphragm] | | [Others] | [Pipe] |
| (high pressu | ure side) *3 | | SE··· | | 316L SST # | | 316 SST# | 316 SST # |
| Flushing co | nnection ring | | | | None | | | |
| Extension | | | | | Length $(X_2) =$ | | | |
| | | | 3 | | Length $(X_2) =$ | 100 mm | | |
| | | | 5 | | Length $(X_2) =$ | 150 mm | | |
| Fill fluid | | | | | | | temperature] *2 | [Ambient temperature] |
| | | | | -A · · · | Silicone oil | -10 to 250 | 0°C | –10 to 85°C |
| Option code | es | | | | /□ Optional s | pecification | | |

The '▶' marks indicate the most typical selection for each specification. Example: EJX210B-LMS5G-97JDN-EA14B1SE01-A/□

- *1: See Table 3 'Gasket contact surface.'
- *2: Indicates the process temperature limit of high pressure side.

 The process temperature limit for low pressure side is -40 to 120°C.
- *3: \(\Delta\) 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.
- *4: Forged version of the material may be used.

The '#' marks indicate the construction materials conform to NACE material recommendations per MR01-75 (2003). Please refer to NACE standards for details.

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II. Flange mounting section (Extended type)

• Precess flange size: 3-inch (80 mm)



| Model S | uffix codes | | Description |
|---------------------------|----------------|-------------|--|
| EJX210B - TITTE - TITTE | □ | | Transmitter body section (1) |
| Process connection style | -E · · · · · · | | |
| Flange rating | - | | |
| | J2 · · · · · | | ·· JIS 20K |
| | A1 · · · · · | | · · ANSI class 150 |
| | A2 · · · · · | | · · ANSI class 300 |
| | 1 | | · · JPI class 150 |
| | | | · · JPI class 300 |
| | D2 · · · · · | | · · DIN PN10/16 |
| | D4 · · · · · | | · · DIN PN25/40 |
| Flange size | 3 · · · · | | · · 3-inch (80 mm) |
| Flange material | Α | | ·· JIS S25C |
| | ▶ B··· | | · · 304 SST*5 |
| | C | | · · 316 SST*5 |
| Gasket contact surface *1 | 1 · | | · · Serration (for ANSI flange only) |
| | 2 · | | · · Flat (no serration) |
| Wetted parts material | | | [Diaphragm] [Others] [Pipe] |
| (high pressure side) *4 | ١ | | · · Hastelloy C-276*3# 316 SST# 316 SST# |
| Flushing connection ring | | 0 · · · · · | · · None |
| Extension | | | Length $(X_2) = 50 \text{ mm}$ |
| | | 3 · · · | · · · Length (X ₂) = 100 mm |
| | | 5 · · · | · · · Length (X ₂) = 150 mm |
| Fill fluid | | | [Process temperature] *2 [Ambient temperature] |
| | | -A · | ·· Silicone oil —10 to 250°C —10 to 85°C |
| Option codes | · | · | /□ Optional specification |

The '▶' marks indicate the most typical selection for each specification. Example: EJX210B-LMS5G-97JDN-EA13B1WE01-A/□

- *1: See Table 3 'Gasket contact surface.'
- *2: Indicates the process temperature limit of high pressure side. The process temperature limit for low pressure side is –40 to 120°C.
- *3: Hastelloy C-276 or N10276
- *4: \(\triangle \) 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.

*5: Forged version of the material may be used.

The '#' marks indicate the construction materials conform to NACE material recommendations per MR01-75 (2003). Please refer to NACE standards for details.

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■ OPTIONAL SPECIFICATIONS (For Explosion Protected type)

| Item | Description | Code |
|---|--|------|
| Factory Mutual (FM) | FM Intrinsically safe Approval*1 Applicable Standard: FM3600, FM3610, FM3611, FM3810, ANSI/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, and Class III, Division 1, Class I, Zone 2, Group IIC, in Hazardous Locations Enclosure: "NEMA 4X", Temp. Class: T4, Amb. Temp.: –50 to 70°C (–58 to 158°F) | FS17 |
| ATEX | ATEX Intrinsically safe Approval Applicable Standard: EN60079-0, EN60079-11, EN60079-26 Certificate: KEMA 10ATEX0164 X II 1G Ex ia IIC T4 Ga Degree of protection: IP66/IP67 Maximum Process Temp.(Tp):120°C(248°F) Amb. Temp.(Tamb): –50 to 70°C (–58 to 158°F) | KS27 |
| Canadian Standards Association (CSA) | CSA Intrinsically safe Approval*1 Certificate: 2325443 [For CSA C22.2] Applicable Standard: C22.2 No.0, C22.2 No.0.4, C22.2 No.25, C22.2 No.94, C22.2 No.157, C22.2 No.213, C22.2 No.61010-1 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 Temperature Code: T4 Ambient Temp.: -50 to 70°C (-58 to 158°F) [For CSA E60079] Applicable Standard: CAN/CSA E60079-0, CAN/CSA E60079-11, IEC60529 Ex ia IIC T4, Enclosure: IP66 and IP67 Maximum Process Temp.(Tp):120°C (248°F) Amb. Temp.(Tamb): -50 to 70°C (-58 to 158°F) | CS17 |
| IECEx | IECEx Intrinsically safe Approval Applicable Standard: IEC60079-0:2011, IEC60079-11:2011, IEC60079-26:2006 Certificate: IECEx KEM 10.0074 X II 1G Ex ia IIC T4 Ga Enclosure: IP66/IP67 Maximum Process Temp.(Tp):120°C(248°F) Amb. Temp.(Tamb): -50 to 70°C (-58 to 158°F) | SS27 |

^{*1:} Applicable for amplifier housing code 7.

■ OPTIONAL SPECIFICATIONS

| | Item | | Description | | Code | | | | |
|------------------------------|---|--|---------------------------|---|------|--|--|--|--|
| Deinting | Color change | Amplifier cover only | | | P□ | | | | |
| Painting | Coating change | Anti-corrosion coating *1 | | | X2 | | | | |
| Oil-prohibite | ed use | Degrease cleansing treatment | | | K1 | | | | |
| Oil-prohibite with dehydr | ed use rating treatment | Degrease cleansing and dehydration | ng treatment | | K5 | | | | |
| | | P calibration (psi unit) | | | D1 | | | | |
| Calibration | units*2 | bar calibration (bar unit) | (See Table for Spar | n and Range Limits.) | D3 | | | | |
| | | M calibration (kgf/cm² unit) | | | D4 | | | | |
| Teflon film* | 3 *4 | Diaphragm protection from sticky p Operation range: 20 to 150°C, 0 to | | on film attached with fluorinated oil. or vacuum service). | TF1 | | | | |
| Gold-plated | l diaphragm*5 | Inside of isolating diaphragms (fill fl permeation. | uid side) are gold plated | d, effective for hydrogen | A1 | | | | |
| | High Pressure side: Process flange, Block *6 Low Pressure side: Cover flange | | | | | | | | |
| | Fan Florida tour | High Pressure side: Process flange, Block *7 Low Pressure side: Cover flange, Process connector | | | | | | | |
| | For Flush type | High Pressure side: Process flange, Block, Ring *6 *8 Low Pressure side: Cover flange | | | | | | | |
| certificate | | High Pressure side: Process flange, Block, Ring *7 *8 Low Pressure side: Cover flange, Process connector | | | | | | | |
| | For Extended | High Pressure side: Process flange Low Pressure side: Cover flange | e, Block, Pipe, Base *6 | | M0E | | | | |
| | type | High Pressure side: Process flange Low Pressure side: Cover flange, F | | | M1E | | | | |
| | | (Flange rating) (Test pre- | ssure) | | | | | | |
| | | JIS 10K 2 MPa (2 | 90 psi) | | T51 | | | | |
| Pressure te | est/ | JIS 20K 5 MPa (7 | 20 psi) | Nitro and All No. 2412 | T54 | | | | |
| Leak test ce | ertificate*9 *10 | ANSI/JPI Class 150 3 MPa (4 | 30 psi) | Nitrogen(N ₂) Gas* ¹³ Retention time: one minute | T52 | | | | |
| | | ANSI/JPI Class 300 8 MPa (1 | 160 psi)* ¹¹ | | T56 | | | | |
| | | ANSI/JPI Class 300 7 MPa (1 | 000 psi)*12 | | T55 | | | | |

- Not applicable with color change option.
- *1: *2: The unit of MWP (Max. working pressure) on the name plate of a housing is the same unit as specified by option code D1,
- *3: Applicable for flush type (process connection style code W.)
- *4:
- Applicable for flushing connection ring code **0**.

 Applicable for wetted parts material code **SW**, **SE**, **WW**, **WE**, and **HW**.Consult Yokogawa in case gold-plated diaphragm is *5: required for low pressure side.
- Applicable for Low Pressure Side Process connection code **0** and **5**.
- *7: Applicable for Low Pressure Side Process connection code 1, 2, 3, and 4.
- *8:
- Applicable for flushing connection ring code **A**, **B**, **C**, and **D**.

 The unit on the certificate is always MPa regardless of selection of option code **D1**, **D3**, or **D4**. *9:
- *10: A flushing connection ring will not be applied when conducting the pressure test or leak test.
- *11: Applicable for flush type (process connection style code W.)
- Applicable for extended type (process connection style code **E**.) *12:
- Pure nitrogen gas is used for oil-prohibited use (option code **K1** and **K5**.)

■ OPTIONAL ACCESSORIES

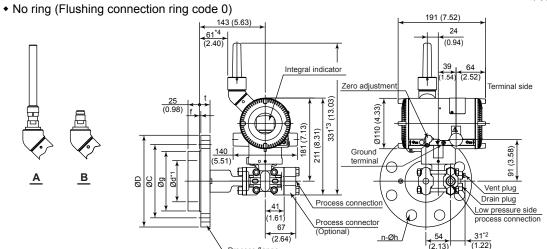
| Product | Part number | Specification |
|-----------------------|-------------|---|
| Battery pack assembly | F9915NQ | Battery case, Lithium-thionyl chloride batteries 2 pieces |
| Batteries *1 | F9915NR | Lithium-thionyl chloride batteries, 2 pieces |
| Battery case | F9915NK | Battery case only |
| Remote antenna cable | F9915KU | 3 m with mounting bracket |
| | F9915KV | 13 m (3 m+10 m), with arrester and mounting bracket |
| Antenna | F9915KW | 2 dBi standard antenna |
| | F9915KX | 0 dBi antenna |
| | F9915KY | 6 dBi high gain antenna*2 |

- Alternatively, Tadiran SL-2780/S or TL-5930/S batteries can be purchased from your local distributer. *1:
- *2: Use of high gain antenna is limited by local regulation of radio and telecommunication law. Consult Yokogawa for details. High gain antenna must be connected to the transmitter by using remote antenna cables.

■ DIMENSIONS

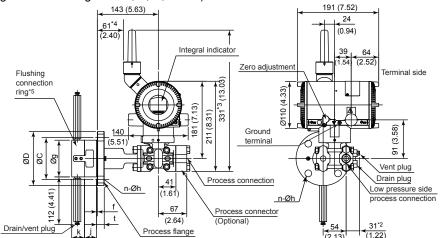
• Flush type (Amplifier housing code 7)

Unit: mm (approx. inch)

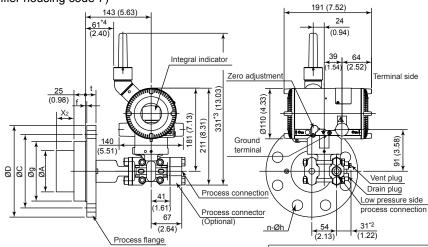


Process flange

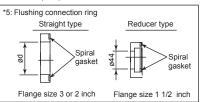
• With ring (Flushing connection ring code A, B, C, and D)



• Extended type (Amplifier housing code 7)



- *1: Indicates inside diameter of gasket contact surface.
- *2: When option code K1 or K5 is selected, add 15 mm (0.59 inch) to the value in the flange. Add 11 mm (0.36 inch) for drain/vent plugs of flushing connection ring.
- *3: When amplifier housing code 8 is selected, the value is 390 mm (15.35 inch). When amplifier housing code 9 is selected, the value is 270 mm (10.63 inch). In both cases, the figures are shown as A or B accordingly.
- *4: When amplifier housing code 8 or 9 is selected, add 1 mm (0.04 inch) to the value.



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Process flange size: 4 inch (100 mm)

Unit: mm (Approx.: inch)

| | • | | ` , | | | | | | | | |
|------|-----------------|--------------|--------------|------------|----|-------------|--------|-------------|---|-----|--------------------|
| Code | Flange rating | øD | øС | aa | ød | + | В | olt holes | i | k | øΑ |
| Code | I larige rating | טש | WC | øg | νu | l l | No.(n) | Dia.(øh) | J | _ ^ | WA |
| J1 | JIS 10K | 210 (8.27) | 175 (6.89) | 155 (6.10) | _ | 18 (0.71) | 8 | 19 (0.75) | _ | _ | 96±0.5 (3.78±0.02) |
| J2 | JIS 20K | 225 (8.86) | 185 (7.28) | 155 (6.10) | _ | 24 (0.94) | 8 | 23 (0.91) | _ | _ | 96±0.5 (3.78±0.02) |
| A1 | ANSI class 150 | 228.6 (9.00) | 190.5 (7.50) | 155 (6.10) | _ | 23.9 (0.94) | 8 | 19.1 (0.75) | _ | _ | 96±0.5 (3.78±0.02) |
| A2 | ANSI class 300 | 254 (10.00) | 200.2 (7.88) | 155 (6.10) | _ | 31.8 (1.25) | 8 | 22.4 (0.88) | _ | _ | 96±0.5 (3.78±0.02) |
| P1 | JPI class 150 | 229 (9.02) | 190.5 (7.50) | 155 (6.10) | _ | 24 (0.94) | 8 | 19 (0.75) | _ | _ | 96±0.5 (3.78±0.02) |
| P2 | JPI class 300 | 254 (10.0) | 200.2 (7.88) | 155 (6.10) | _ | 32 (1.26) | 8 | 22 (0.87) | _ | _ | 96±0.5 (3.78±0.02) |
| D2 | DIN PN10/16 | 220 (8.66) | 180 (7.09) | 155 (6.10) | _ | 20 (0.79) | 8 | 18 (0.71) | _ | _ | 96±0.5 (3.78±0.02) |
| D4 | DIN PN25/40 | 235 (9.25) | 190 (7.48) | 155 (6.10) | _ | 24 (0.94) | 8 | 22 (0.87) | _ | _ | 96±0.5 (3.78±0.02) |

Process flange size: 3 inch (80 mm)

| Code | Flange rating | øD | øС | aa | ød*1 | + | Bolt holes | | | k | øΑ | |
|------|-----------------|--------------|--------------|------------|-----------|-------------|------------|-------------|-----------|-----------|-------------------|--|
| Code | r larige rating | טש | ØC | øg | øu · | l l | No.(n) | Dia.(øh) | J | , r | WA | |
| J1 | JIS 10K | 185 (7.28) | 150 (5.91) | 130 (5.12) | 90 (3.54) | 18 (0.71) | 8 | 19 (0.75) | 25 (0.98) | 27 (1.06) | 71±0.5 (2.8±0.02) | |
| J2 | JIS 20K | 200 (7.87) | 160 (6.30) | 130 (5.12) | 90 (3.54) | 22 (0.87) | 8 | 23 (0.91) | 25 (0.98) | 27 (1.06) | 71±0.5 (2.8±0.02) | |
| A1 | ANSI class 150 | 190.5 (7.50) | 152.4 (6.00) | 130 (5.12) | 90 (3.54) | 23.9 (0.94) | 4 | 19.1 (0.75) | 25 (0.98) | 27 (1.06) | 71±0.5 (2.8±0.02) | |
| A2 | ANSI class 300 | 209.6 (8.25) | 168.1 (6.62) | 130 (5.12) | 90 (3.54) | 28.5 (1.12) | 8 | 22.4 (0.88) | 25 (0.98) | 27 (1.06) | 71±0.5 (2.8±0.02) | |
| P1 | JPI class 150 | 190 (7.48) | 152.4 (6.00) | 130 (5.12) | 90 (3.54) | 24 (0.94) | 4 | 19 (0.75) | 25 (0.98) | 27 (1.06) | 71±0.5 (2.8±0.02) | |
| P2 | JPI class 300 | 210 (8.27) | 168.1 (6.62) | 130 (5.12) | 90 (3.54) | 28.5 (1.12) | 8 | 22 (0.87) | 25 (0.98) | 27 (1.06) | 71±0.5 (2.8±0.02) | |
| D2 | DIN PN10/16 | 200 (7.87) | 160 (6.30) | 130 (5.12) | 90 (3.54) | 20 (0.79) | 8 | 18 (0.71) | 25 (0.98) | 27 (1.06) | 71±0.5 (2.8±0.02) | |
| D4 | DIN PN25/40 | 200 (7.87) | 160 (6.30) | 130 (5.12) | 90 (3.54) | 24 (0.94) | 8 | 18 (0.71) | 25 (0.98) | 27 (1.06) | 71±0.5 (2.8±0.02) | |

Process flange size: 2 inch (50 mm)

| | | | • • | | | | | | | | |
|------|----------------|--------------|--------------|------------|-----------|-------------|--------|-------------|-----------|-----------|--|
| Code | Flange rating | øD | øС | aa l | ød*1 | | В | olt holes | | k | |
| Code | Flange raung | טש | ØC | øg | yu · | ι | No.(n) | Dia.(øh) | J | κ | |
| J1 | JIS 10K | 155 (6.10) | 120 (4.72) | 100 (3.94) | 61 (2.40) | 16 (0.63) | 4 | 19 (0.75) | 25 (0.98) | 27 (1.06) | |
| J2 | JIS 20K | 155 (6.10) | 120 (4.72) | 100 (3.94) | 61 (2.40) | 18 (0.71) | 8 | 19 (0.75) | 25 (0.98) | 27 (1.06) | |
| A1 | ANSI class 150 | 152.4 (6.00) | 120.7 (4.75) | 100 (3.94) | 61 (2.40) | 19.1 (0.75) | 4 | 19.1 (0.75) | 25 (0.98) | 27 (1.06) | |
| A2 | ANSI class 300 | 165.1 (6.50) | 127.0 (5.00) | 100 (3.94) | 61 (2.40) | 22.4 (0.88) | 8 | 19.1 (0.75) | 25 (0.98) | 27 (1.06) | |
| P1 | JPI class 150 | 152 (5.98) | 120.6 (4.75) | 100 (3.94) | 61 (2.40) | 19.5 (0.77) | 4 | 19 (0.75) | 25 (0.98) | 27 (1.06) | |
| P2 | JPI class 300 | 165 (6.50) | 127.0 (5.00) | 100 (3.94) | 61 (2.40) | 22.5 (0.89) | 8 | 19 (0.75) | 25 (0.98) | 27 (1.06) | |
| D2 | DIN PN10/16 | 165 (6.50) | 125 (4.92) | 100 (3.94) | 61 (2.40) | 18 (0.71) | 4 | 18 (0.71) | 25 (0.98) | 27 (1.06) | |
| D4 | DIN PN25/40 | 165 (6.50) | 125 (4.92) | 100 (3.94) | 61 (2.40) | 20 (0.79) | 4 | 18 (0.71) | 25 (0.98) | 27 (1.06) | |

Process flange size: 1 1/2 inch (40 mm)

| 3 · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
|---|----------------|--------------|--------------|-----------|-----------|-------------|------------|-------------|-----------|-----------|
| Code | Flange rating | øD | øС | øg | ød*1 | t | Bolt holes | | | k |
| | | | | | | | No.(n) | Dia.(øh) | J | , n |
| J1 | JIS 10K | 140 (5.51) | 105 (4.13) | 86 (3.39) | 44 (1.73) | 16 (0.63) | 4 | 19 (0.75) | 27 (1.06) | 30 (1.18) |
| J2 | JIS 20K | 140 (5.51) | 105 (4.13) | 86 (3.39) | 44 (1.73) | 18 (0.71) | 4 | 19 (0.75) | 27 (1.06) | 30 (1.18) |
| A1 | ANSI class 150 | 127 (5.00) | 98.4 (3.87) | 86 (3.39) | 44 (1.73) | 17.5 (0.69) | 4 | 15.9 (0.63) | 27 (1.06) | 30 (1.18) |
| A2 | ANSI class 300 | 155.4 (6.12) | 114.3 (4.50) | 86 (3.39) | 44 (1.73) | 20.6 (0.81) | 4 | 22.4 (0.88) | 27 (1.06) | 30 (1.18) |
| P1 | JPI class 150 | 127 (5.00) | 98.6 (3.88) | 86 (3.39) | 44 (1.73) | 17.6 (0.69) | 4 | 16 (0.63) | 27 (1.06) | 30 (1.18) |
| P2 | JPI class 300 | 155 (6.10) | 114.3 (4.50) | 86 (3.39) | 44 (1.73) | 20.6 (0.81) | 4 | 22 (0.87) | 27 (1.06) | 30 (1.18) |

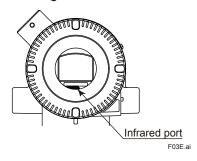
^{*1:} Indicates inside diameter of gasket contact surface.

Extension length (X₂)

| Extension code | X ₂ | | | |
|----------------|----------------|--|--|--|
| 1 | 50 (1.97) | | | |
| 3 | 100 (3.94) | | | |
| 5 | 150 (5.91) | | | |

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• Infrared Configuration



<Ordering Information>

Specify the following when ordering

- 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 for low or high range limits within the range of -32000 to 32000. When reverse range is designated, specify LRV as greater than URV. When square root output mode is specified, LRV must be "0(zero)".
- 2) Specify only one unit from the table, 'Factory setting.'
- 3. Display scale and units Specify either 0 to 100% or 'Range and Unit' for engineering units scale:

Scale range can be specified with range limit specifications up to 5 digits for low or high range limits within the range of -32000 to 32000. Unit display consists of 6-digit, therefore, if the specified scaling unit excluding '/' is longer than 6-characters, the first 6 characters will be displayed on the unit display

- 4. Tag Number (if required).
 Specify Tag number (up to 16 letters) to be engraved on the tag plate. The specified letters are written on TAG_Name(16 letters) in the amplifier memory.
- 5. Software tag
 Specify this software tag when tag number which is
 different from the tag number specified in the "TAG
 NUMBER" is required. The tag number specified in
 "SOFTWARE TAG" will be entered on "TAG" (up to
 16 letters) in the amplifier memory.

< Factory Setting >

| Tag number | As specified in order | | | | | | |
|---|---|--|--|--|--|--|--|
| Calibration range lower range value | As specified in order | | | | | | |
| Calibration range upper range value | As specified in order | | | | | | |
| Calibration range unit | Selected from mmH $_2$ O, mmH $_2$ O(68°F), mmHg, Pa, kPa, MPa, mbar, bar, gf/cm 2 , kgf/cm 2 , inH $_2$ O, inH $_2$ O(68°F), inHg, ftH $_2$ O, ftH $_2$ O(68°F) or psi. (Only one unit can be specified) | | | | | | |
| Display setting | Designated differential pressure value specified in order. (% or user scaled value.) | | | | | | |
| Static pressure display range | '0 to 25 MPa' for M and H capsule, absolute value. Measuring low pressure side. | | | | | | |