General Specifications

GS 01C33E10-01EN

OpreX™ Pressure Transmitter
EJX430S
Gauge Pressure Transmitter

■ OVERVIEW

The high performance gauge pressure transmitter EJX430S features single crystal silicon resonant sensor and is suitable to measure liquid, gas, or steam flow as well as liquid level, density and pressure. EJX430S outputs a 4 to 20 mA DC signal corresponding to the measured pressure. Its highly accurate and stable sensor can be shown on the integral indicator or remotely monitored via HART or PROFINET communications.

Other key features include quick response, backlit Graphic display,

EJX S series are certified as complying with SIL 2 for safety requirement.

■ STANDARD SPECIFICATIONS

□ Span and Range Limits

Capsule Range Code	MPa		psi (/D1)		bar (/D3)		kgf/cm² (/D4)	
	Range	Span	Range	Span	Range	Span	Range	Span
Standard Working pressure (Up to 25 MPa)								
H	-100 to 500 kPa	2.5 to 500 kPa	-400 to 2009 inH2O	10 to 2009 inH2O	-1 to 5	0.025 to 5	-1 to 5	0.025 to 5
A	-0.1 to 3.5	0.0175 to 3.5	-14.5 to 507	2.5 to 507	-1 to 35	0.175 to 35	-1 to 35	0.175 to 35
B	-0.1 to16	0.08 to 16	-14.5 to 2320	12 to 2320	-1 to 160	0.8 to 160	-1 to 163	0.8 to 163
High Working Pressures Type (Over 25 MPa - Refer to limits)								
C	-0.1 to 32	0.25 to 32	-14.5 to 4641	36 to 4641	-1 to 320	2.5 to 320	-1 to 326	2.5 to 326
D	-0.1 to 50	0.25 to 50	-14.5 to 7251	36 to 7251	-1 to 500	2.5 to 500	-1 to 509	2.5 to 509

□ Pressure limits

Capsule range code	Maximum Over Pressure	Burst Pressure Limits
H	16 MPa (2300 psi)	69 MPa (10000 psi)
A	16 MPa (2300 psi)	
B	25 MPa (3600 psi)*	
C	48 MPa (6750 psi)	132 MPa (19100 psi)
D	75 MPa (10800 psi)	

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

YOKOGAWA

Yokogawa Electric Corporation
2-9-32, Nakacho, Musashino-shi, Tokyo, 180-8750 Japan

GS 01C33E10-01EN

2nd Edition Apr. 2026

□ Performance Specifications

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

Specification Conformance:

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

Reference Accuracy of Calibrated Span:

These specifications include terminal-based linearity, hysteresis, and repeatability.

Capsule Range code	Wetted Parts Material code	Optional Code	Reference Accuracy		X	URL (Upper Range Limit)
			Span≥X	Span<X		
H	S, L	-	±0.035%	±(0.0049 URL/span)%	70 kPa (281 inH_2O)	500 kPa (2009 inH_2O)
A				±(0.0035 URL/span)%	0.35 MPa (50 psi)	3.5 MPa (507 psi)
B					1.6 MPa (232 psi)	16 MPa (2320 psi)
H	S, L	/HAC	±0.025%	±(0.005+0.0028 URL/span)%	70 kPa (281 inH_2O)	500 kPa (2009 inH_2O)
A				±(0.01+0.0015 URL/span)%	0.35 MPa (50 psi)	3.5 MPa (507 psi)
B					1.6 MPa (232 psi)	16 MPa (2320 psi)
C	S	-	±0.035%	±(0.0055 URL/span)%	5 MPa (725 psi)	32 MPa (4641 psi)
D				±(0.0035 URL/span)%	5 MPa (725 psi)	50 MPa (7251 psi)

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

Capsule range code	Effect
H	± (0.04% Span+0.0125% URL)
A, B	± (0.04% Span+0.009% URL)
C	± (0.04% Span+0.0141% URL)
D	± (0.04% Span+0.009% URL)

Stability (All normal operating condition):

±0.1% of URL per 20 years:

Power Supply Effects: For HART Communication:

±0.005 % per Volt (from 21.6 to 32 V DC, 350Ω)

Vibration Effects:

Less than 0.1% of URL (10-60 Hz, 0.21 mm displacement/60-2000 Hz 3 G)

Mounting Position Effects:

Tilting up to 90 degrees will cause zero shift up to 0.4 kPa (1.6 inH_2O) which can be corrected by the zero adjustment.

Working Pressure Limits (Silicone oil):

- Maximum Pressure: Refer to “Span and range limits.”
- Minimum Pressure: See graph below Figure 1.

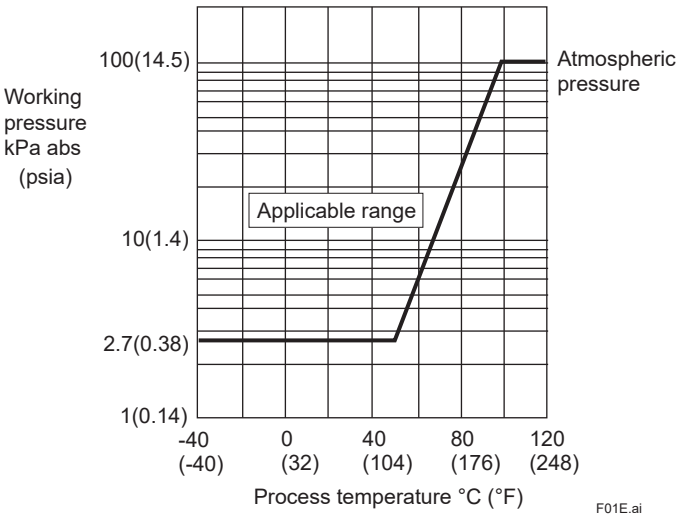


Figure 1. Working Pressure and Process Temperature

□ Communication Specifications

HART Communication:

Item		Description
Communication protocol		Two wire 4 to 20 mA DC output with digital communications HART
Output signal		Digital communication signal based on HART. 3.6 to 21.6 mA (-2.5 to 110%) Normal output range (default setting): 3.6 to 21.6 mA Burnout High side (default setting): 115% (22.4 mA DC) Burnout Low side (default setting): -5% (3.2 mA DC) For optional code /C2 Normal output range (default setting): 3.8 to 20.5 mA Burnout High side (default setting): 115% (22.4 mA DC) Burnout Low side (default setting): -5% (3.2 mA DC)
Output mode		Linear/Square root/Signal Characterizer (Max 30-segment)
Communication Requirements	Supply Voltage	For LCD Display and without display (Display and interface code : E, N) 10.5 to 42 V DC for general use and flameproof type. 10.5 to 30 V DC for intrinsically safe type. Minimum voltage limited at 16.4 V DC for digital communications For Graphic display (Display and interface code : F) 12 to 42 V DC for general use and flameproof type. Minimum voltage limited at 17.75 V DC for digital communications.
	Load	250 to 600Ω (including cable resistor) Working Pressure and Process Temperature for Figure 2
Response time (Typical)		Wetted Parts material Code: S, L: 90 ms
Measurement period	Gauge Pressure	35 ms
	Capsule Temperature	2 s
	Main module Temperature	1 s
Output signal at Failure Alarm		Output current value (Burnout), Communication, Indicator (Support for NAMUR NE107)
External Zero Adjustment		External zero is continuously adjustable with 0.01% incremental resolution of span.
Zero Adjustment Limits		Zero can be fully elevated or suppressed, within the lower and upper range limits of the capsule.
Display	LCD Display	Process value (5-digit, up to 4 different process values) Unit display (6-digit), Bar graph, Alarm message, NE107 status is displayed
	Graphic Display	Graphical LCD display (128×80 pixels display) with a color backlight, Process value (5-digit, up to 4 different process values), Unit display (6-digit), Bar graph, Alarm message, NE107 status is displayed, Display rotation selection Display language: English, French, German, Italian, Spanish, Portuguese, Russian, Chinese, Japanese
Local Parameter Setting	LCD Display	Loop test (test output), Tag number setting, Measurement range unit setting, Lower limit (LRV) and Upper limit (URV) of measurement range, Damping time constant setting, Output mode (proportional/square root) setting, Display content selection, Range resetting using actual pressure (LRV/URV), Burnout direction setting, setting of write-protect, Display of device information.
	Graphic Display	Loop test (test output), Tag number setting, Measurement range unit setting, Lower limit (LRV) and Upper limit (URV) of measurement range, Damping time constant setting, Output mode (proportional/square root) setting, Display content selection, Range resetting using actual pressure (LRV/URV), Burnout direction setting, setting of write-protect, Display of device information, Multiple display selection, Backlight color selection, Display rotation selection, language selection, LCD contrast selection
Diagnostics function		The following items are detected and output current value, communication, and indicator. Sensor error, Module error, Process error (out of equipment specification range, out of measurement range), Parameter setting value error, High/Low alarm for measured pressure.
Advanced functions		Heat trace monitoring: The change of the process connection temperature calculated by using the two temperature sensors built enables to detect the heat trace breakage or the abnormal temperature due to the failure.
		Impulse line blockage detection The impulse line condition can be calculated and detected by extracting the fluctuation component from the static pressure signal.

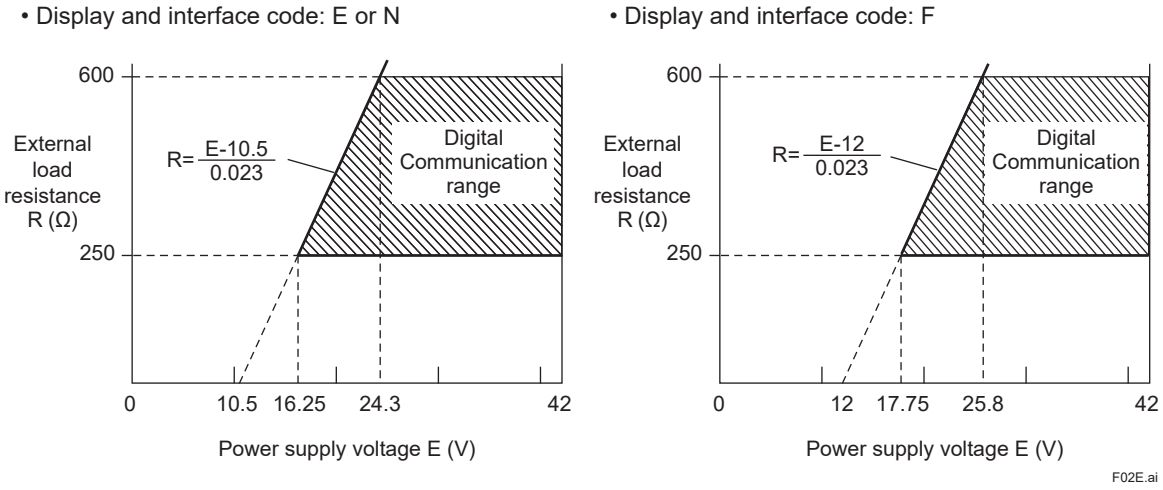


Figure 2. Relationship Between Power Supply Voltage and External Load Resistance

PROFINET Communication:

Item		Description	
Communication protocol		Ethernet-APL Port Profile Specification Ver 1.1 (IEEE 802.3cg-2019) PROFINET Ver 2.45 (IEC 61158 Type 10, IEC 61784-2 CPF3) PA Profile 4.0	
Output signal		Digital communication signal based on PROTINET	
Output mode		Linear/Square root/Signal Characterizer (Max 30-segment)	
Communication Requirements	Supply Voltage	9 to 15 V DC for intrinsically safe type.	
	Load	N/A	
Response time (Typical)		Wetted Parts material Code: S, L, F, G, J, K	150 ms
		Wetted Parts material Code: A, B, D, H, M, T, W	210 ms
Measurement period	Gauge Pressure	35 ms	
	Capsule Temperature	2 s	
	Main module Temperature	1 s	
Function Block		AI × 3, Totalizer × 1	
Output signal at Failure Alarm		Communication, Indicator (Support for NAMUR NE107)	
External Zero Adjustment		External zero is continuously adjustable with 0.01% incremental resolution of span.	
Zero Adjustment Limits		Zero can be fully elevated or suppressed, within the lower and upper range limits of the capsule.	
Display	LCD Display	Process value (5-digit, up to 4 different process values) Unit display (6-digit), Bar graph, Alarm message, NE107 status is displayed	
	Graphic Display	Graphical LCD display (128×80 pixels display) with a color backlight, Process value (5-digit, up to 4 different process values), Unit display (6-digit), Bar graph, Alarm message, NE107 status is displayed, Display rotation selection Display language: English, French, German, Italian, Spanish, Portuguese, Russian, Chinese, Japanese	
Local Parameter Setting	LCD Display	Display of device information (VendorID, DeviceID, Station name, IP address)	
	Graphic Display	Display of device information (VendorID, DeviceID, Station name, IP address) Setting can be changed. Multiple display selection, Backlight color selection, Display rotation selection, language selection, LCD contrast selection	
Diagnostics function		The following items are detected and communication, and indicator. Sensor error, Module error, Process error (out of equipment specification range, out of measurement range), Parameter setting value error.	
Advanced functions		Heat trace monitoring: The change of the process connection temperature calculated by using the two temperature sensors built enables to detect the heat trace breakage or the abnormal temperature due to the failure.	
		Impulse line blockage detection The impulse line condition can be calculated and detected by extracting the fluctuation component from the static pressure signal.	

□ Conformity Standards

Degrees of protection:
IP66/IP67/IP68 (maximum depth of 20 meters up to 168 hours),
Type 4X

Explosion Protected type:
Canada, US, ATEX, IECEx
Refer to “EXPLOSION PROTECTED TYPE” for details.

EMC Conformity Standards:
EN 61326-1: Class A, Table 2(*1)
EN 61326-2-3
*1: Tested in accordance with IEC 61000-4 series, as specified in EN 61326-1

European Pressure Equipment Directive 2014/68/EU:
Sound Engineering Practice
With option code /PE3
Category III, Module H, Type of Equipment: Pressure Accessory-Vessel, Type of Fluid: Liquid and Gas, Group of Fluid: 1 and 2

Environmental regulations:
- EU RoHS Directive: EN IEC 63000
- REACH Statement: Regulation EC 1907/2006
- China RoHS: GB 26572
- Toxic Substances Control Act: TSCA: US Toxic Substances Control Act (TSCA) Section 6(h)

Safety Requirement Standards:
EN61010-1
- Installation category: (Anticipated transient overvoltage 330 V)
- Pollution degree: 2
- Indoor/Outdoor use

SIL Certification:
Compliant with conformity standard IEC 61508 (Functional Safety of Electrical/Electronic/Programmable Electronic Safety-related Systems).
Compliant with SIL 2. Compliant with SIL 3 if two instruments are used in a redundant configuration.
The safety data varies depending on the hardware/software revision.
Read the Safety Manual for details. (Document No.: TI 01C33A01-01ZN)
The Functional Safety Manual can be downloaded from our website.
URL: https://www.yokogawa.com/solutions/products-platforms/field-instruments/

Marking:
- CE marking
- RCM marking
- Morocco conformity marking
- cFMUS marking

Approval code	CE	RCM	Morocco conformity	cFMUS
-C□□, -F□□		✓	✓	✓
-KF1, -KS1, -KU1, -KNN	✓	✓	✓	
-SF1, -SS1, -SU1		✓	✓	
-VU1	✓	✓	✓	✓
-NNN		✓	✓	

□ Normal Operating Condition

Supply Voltage:
Refer to “Communication Specifications.”

Ambient Temperature Limits:
−40 to 85°C (−40 to 185°F)
−30 to 80°C (−22 to 176°F) with Display
In case of explosion protected types, refer to “EXPLOSION PROTECTED TYPE.”

Process Temperature Limits:
-40 to 120°C (−40 to 248°F)
In case of explosion protected types, refer to “EXPLOSION PROTECTED TYPE.”

Ambient Humidity Limits:
0 to 100% RH

Vibration Resistance:
0.21 mm (10-60 Hz), 3 G (60-2000 Hz)

Shock Resistance:
50 G 11 ms (de-energized, with half-sine wave pulse in three directions)

Noise Resistance:
EN61326, NAMUR NE21

Grounding:
Class-C grounding (Ground resistance 10Ω or less)

□ Physical Specifications

Electrical connection:
Refer to “MODEL AND SUFFIX CODES.”

Process connections:
Refer to “MODEL AND SUFFIX CODES.”

Material:
- Wetted Parts Materials: Refer to “MODEL AND SUFFIX CODES.”
- Bolting: B7 carbon steel, 316L SST or 660 SST
- Housing: Low copper cast aluminum alloy
- Name plate and tag: 316 SST
- Cover O-rings: Buna-N
- Fill fluid: Silicone, Fluorinated oil
- Capsule gasket: Teflon-coated 316L SST
- Process connector gasket/O-Ring
  PTFE Teflon gasket for Capsule range code A, B and H
  Fluorinated rubber O-ring for Capsule range code C or optional codes /N2, /N3
  Glass reinforced Teflon gasket for Capsule range code D

Coating of housing:
[for aluminum housing]
Polyester resin powder coating Mint-green paint (RAL190 30 15)
[for option code /P□ or /X2]
Epoxy and polyurethane resin solvent coating

Mounting:
2 inch pipe mounting

Weight:
3.0 kg (6.6 lb) for Capsule range code H, A, B and Wetted parts material code S, L
5.1 kg (11.2 lb) for Capsule range code C, D
Without Display, mounting bracket, and process connector.

■ MODEL AND SUFFIX CODES

● **EJX430S Standard working pressure type**

Model	SuffixCode	Description
EJX430S		Gauge Pressure Transmitter
Approval	**-CF1**	Canada explosion-proof(*1)(*2)
	-CS1	Canada intrinsically safe(*1)(*2)
	-CU1	Canada explosion-proof and intrinsically safe(*1)(*2)
	-CNN	Canada safety requirement(*1)(*2)
	-FF1	USA explosion-proof(*1)(*2)
	-FS1	USA intrinsically safe(*2)
	-FU1	USA explosion-proof and intrinsically safe(*1)(*2)
	-FNN	USA safety requirement(*1)(*2)
	-KF1	ATEX flameproof(*1)(*2)
	-KS1	ATEX intrinsically safe(*2)
	-KU1	ATEX flameproof and intrinsically safe(*1)(*2)
	-KNN	CE marking(*1)
	-SF1	IECEx flameproof approval(*1)(*2)
	-SS1	IECEx intrinsically safe(*2)
	-SU1	IECEx flameproof and intrinsically safe(*1)(*2)
	-VU1	IECEx, ATEX, USA and Canada explosion-proof, intrinsically safe combination(*1)(*2)
	-NNN	None(*1)
Output signal	**-J**	4 to 20 mA DC with digital communication (HART protocol)
	-T	PROFINET over Ethernet-APL(*3)
Housing	**1**	Material: Cast-aluminum alloy
Electrical Connection	**0**	G1/2 female, one electrical connection without blind plugs
	2	1/2NPT female, two electrical connections without blind plugs
	4	M20 female, two electrical connections without blind plugs
	5	G1/2 female, two electrical connections with a blind plug
	7	1/2NPT female, two electrical connections with a blind plug
	9	M20 female, two electrical connections with a blind plug
	A	G1/2 female, two electrical connections with a 316 SST blind plug
	C	1/2NPT female, two electrical connections with a 316 SST blind plug
	D	M20 female, two electrical connections with a 316 SST blind plug
	F	G1/2 female, two electrical connections without blind plugs
	P	M20 female and 1/2NPT female dual connection without blind plugs
Display and interface	**E**	LCD display
	F	Graphic display(*9)
	N	Without display
Capsule range	**-H**	500 kPa / 2000 inH_2O / 5000 mbar/ 5 kgf/cm^2
	-A	3.5 MPa / 500 psi
	-B	16 MPa / 2300 psi
Wetted Parts Material(*4)	□	Refer to “Wetted Parts Material” table below
Fill fluid	**S**	Silicone oil
	D	Fluorinated oil(*5) Operating temperature –20 to 80°C (–4 to 176°F)
Process Connection	**0**	Without process connector (Rc1/4 female on cover flange)
	1	With Rc1/4 female process connector
	2	With Rc1/2 female process connector
	3	With 1/4NPT female process connector
	4	With 1/2NPT female process connector
	5	Without process connector (1/4NPT female on cover flange)
	W	Assembled with low volume cover flanges for diaphragm seal units with two M12 x 1.25 female threads, and shipped with two new capsule gaskets(*6) (*7)

Model	SuffixCode	Description
Bolts and nuts material	**C**	660 SST
	G	316L SST
	J	ASTM-B7 carbon steel
Installation	**2**	Vertical impulse piping type, right side high pressure, process connectors upside
	3	Vertical impulse piping type, right side high pressure, process connectors downside
	6	Vertical impulse piping type, left side high pressure, process connectors upside
	7	Vertical impulse piping type, left side high pressure, process connectors downside
	8	Horizontal impulse piping type, right side high pressure
	9	Horizontal impulse piping type, left side high pressure
	B	Bottom process connection type, left side high pressure(*7)
	U	Universal flange(*7)
Mounting Bracket	**-B**	304 SST 2-inch pipe mounting (flat type)
	-D	304 SST 2-inch pipe mounting (L type)
	-J	316 SST 2-inch pipe mounting (flat type)
	-K	316 SST 2-inch pipe mounting (L type)
	-M	316 SST 2-inch pipe mounting (for bottom process connection)(*7)
	-P	316 SST 2-inch pipe mounting, position adjustable L type (for vertical piping)(*8)
	-N	None
—	**N**	Always N
Optional codes		/☐ Optional specifications

*1: Not applicable for output signal code T.
*2: Not applicable for electrical connection code 0, 5, 9, A and F.
*3: Not applicable for display and interface code F and N.
The approval code -FS1, -KS1 or -SS1 must be selected.
*4: ⚠ 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: Oil-prohibited use (degreasing cleaning) or dehydrating treatment, select the additional specification code for oil-prohibited use (/K01, /K41) or oil-prohibited use with dehydrating treatment (/K05, /K45).
*6: Applicable for installation code 9.
*7: Applicable with wetted parts material code S, F and G.
*8: For position adjustable bracket, refer to SD 01C33B10-01EN.
*9: Not applicable for approval code -CS1, -CU1, -FS1, -FU1, -KS1, -KU1, -SS1, -SU1 and -VU1

Table. Wetted Parts Materials

Wetted parts material code	Cover flange and process connector	Capsule	Capsule gasket	Vent/Drain plug
S #	ASTM CF-8M(*1)(*8)	Hastelloy C-276(*6) (Diaphragm) F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316 SST
L #	ASTM CF-3M(*2)(*8)	Hastelloy C-276(*6) (Diaphragm) F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316L SST
H #	ASTM CF-8M(*1)(*8)	Hastelloy C-276(*6)	PTFE Teflon	316 SST
M #	ASTM CF-8M(*1)(*8)	Monel	PTFE Teflon	316 SST
T	ASTM CF-8M(*1)(*8)	Tantalum	PTFE Teflon	316 SST
A #	Hastelloy C-276 equivalent(*3)	Hastelloy C-276(*6)	PTFE Teflon	Hastelloy C-276 (*6)
D	Hastelloy C-276 equivalent(*3)	Tantalum	PTFE Teflon	Hastelloy C-276 (*6)
B #	Monel equivalent(*4)	Monel	PTFE Teflon	Monel
W #	Super Duplex SST equivalent(*5)	Hastelloy C-276(*6)	PTFE Teflon	Super Duplex SST (*7)
F #	ASTM CF-8M(*1)(*8)	Hastelloy C-276(*6) / Gold-plated (3 µm) (Diaphragm), F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316 SST
G #	ASTM CF-8M(*1)(*8)	Hastelloy C-276(*6) / Gold-plated (10 µm) (Diaphragm), F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316 SST
J #	ASTM CF-3M(*2)(*8)	Hastelloy C-276(*6) / Gold-plated (3 µm) (Diaphragm), F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316L SST
K #	ASTM CF-3M(*2)(*8)	Hastelloy C-276(*6) / Gold-plated (10 µm) (Diaphragm), F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316L SST

*1: ASTM CF-8M or SCS14A. Cast version of 316 SST.
*2: ASTM CF-3M or SCS16A. Cast version of 316L SST.
*3: Hastelloy C-276 equivalent casting.
*4: Indicated material is equivalent to ASTM M35-2.
*5: Indicated material is equivalent to ASTM A995 Grade5A.
*6: Hastelloy C-276 or Hastelloy C276 equivalent.
*7: UNS S32750 or EN 1.4410.
*8: Intergranular corrosion test passed according to ASTM A262 Practice E.
The '#'marks indicate the construction materials conform to NACE material recommendations per MR0175/ISO15156.
Please refer to the latest standards for details. Selected materials also conform to NACE MR0103.

● EJX430S High working pressure type

Model	SuffixCode				Description
EJX430S					Gauge Pressure Transmitter
Approval	**-CF1**				Canada explosion-proof(*1)(*2)
	-CS1				Canada intrinsically safe(*1)(*2)
	-CU1				Canada explosion-proof and intrinsically safe(*1)(*2)
	-CNN				Canada safety requirement(*1)(*2)
	-FF1				USA explosion-proof(*1)(*2)
	-FS1				USA intrinsically safe(*2)
	-FU1				USA explosion-proof and intrinsically safe(*1)(*2)
	-FNN				USA safety requirement(*1)(*2)
	-KF1				ATEX flameproof(*1)(*2)
	-KS1				ATEX intrinsically safe(*2)
	-KU1				ATEX flameproof and intrinsically safe(*1)(*2)
	-KNN				CE marking(*1)
	-SF1				IECEx flameproof approval(*1)(*2)
	-SS1				IECEx intrinsically safe(*2)
	-SU1				IECEx flameproof and intrinsically safe(*1)(*2)
	-VU1				IECEx, ATEX, USA and Canada explosion-proof, intrinsically safe combination(*1)(*2)
	-NNN				None(*1)
Output signal	**-J**				4 to 20 mA DC with digital communication (HART protocol)
	-T				PROFINET over Ethernet-APL(*3)
Housing	**1**				Material: Cast-aluminum alloy
Electrical Connection		**0**			G1/2 female, one electrical connection without blind plugs
		2			1/2NPT female, two electrical connections without blind plugs
		4			M20 female, two electrical connections without blind plugs
		5			G1/2 female, two electrical connections with a blind plug
		7			1/2NPT female, two electrical connections with a blind plug
		9			M20 female, two electrical connections with a blind plug
		A			G1/2 female, two electrical connections with a 316 SST blind plug
		C			1/2NPT female, two electrical connections with a 316 SST blind plug
		D			M20 female, two electrical connections with a 316 SST blind plug
		F			G1/2 female, two electrical connections without blind plugs
		P			M20 female and 1/2NPT female dual connection without blind plugs
Display and interface			**E**		LCD display
			F		Graphic display(*7)
			N		Without display
Capsule range				**-C**	32 MPa, 4500 psi, 320 bar, 320 kgf/cm^2
				-D	50 MPa, 7200 psi, 500 bar, 500 kgf/cm^2
Wetted Parts Material(*4)				□	Refer to “Wetted Parts Material” table below
Fill fluid			**S**		Silicone oil
			D		Fluorinated oil(*5) Operating temperature –20 to 80°C (–4 to 176°F)
Process Connection				**0**	Without process connector (Rc1/4 female on cover flange)
				1	With Rc1/4 female process connector
				2	With Rc1/2 female process connector
				3	With 1/4NPT female process connector
				4	With 1/2NPT female process connector
				5	Without process connector (1/4NPT female on cover flange)
Bolts and nuts material				**D**	660 SST [MWP] 32 MPa / 50 MPa
				F	316L SST [MWP] 32 MPa / 50 MPa
				L	ASTM-B7 carbon steel [MWP] 32 MPa / 50 MPa

Model	SuffixCode	Description
Installation	**2**	Vertical impulse piping type, right side high pressure, process connectors upside
	3	Vertical impulse piping type, right side high pressure, process connectors downside
	6	Vertical impulse piping type, left side high pressure, process connectors upside
	7	Vertical impulse piping type, left side high pressure, process connectors downside
	8	Horizontal impulse piping type, right side high pressure
	9	Horizontal impulse piping type, left side high pressure
	U	Universal flange
Mounting Bracket	**-B**	304 SST 2-inch pipe mounting (flat type)
	-D	304 SST 2-inch pipe mounting (L type)
	-J	316 SST 2-inch pipe mounting (flat type)
	-K	316 SST 2-inch pipe mounting (L type)
	-M	316 SST 2-inch pipe mounting (for bottom process connection)
	-P	316 SST 2-inch pipe mounting, position adjustable L type (for vertical piping)(*6)
	-N	None
—	**N**	Always N
Optional codes		/☐ Optional specifications

*1: Not applicable for output signal code T.
*2: Not applicable for electrical connection code 0, 5, 9, A and F.
*3: Not applicable for display and interface code F and N.
The approval code -FS1, -KS1 or -SS1 must be selected.
*4: ⚠ 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: Oil-prohibited use (degreasing cleaning) or dehydrating treatment, select the additional specification code for oil-prohibited use (/K01, /K41) or oil-prohibited use with dehydrating treatment (/K05, /K45).
*6: For position adjustable bracket, refer to SD 01C33B10-01EN.
*7: Not applicable for approval code -CS1, -CU1, -FS1, -FU1, -KS1, -KU1, -SS1, -SU1 and -VU1

Table. Wetted Parts Materials

Wetted parts material code	Cover flange	Process connector	Capsule	Capsule gasket	Vent/Drain plug
S #	F316 SST(*3)	ASTM CF-8M(*1)(*3) (C-capsule) 316 SST(*3) (D-capsule)	Hastelloy C-276(*2) (Diaphragm) F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316 SST
F #	F316 SST(*3)	ASTM CF-8M(*1)(*3) (C-capsule) 316 SST(*3) (D-capsule)	Hastelloy C-276(*2) / Gold-plated (3 μm) (Diaphragm), F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316 SST
G #	F316 SST(*3)	ASTM CF-8M(*1)(*3) (C-capsule) 316 SST(*3) (D-capsule)	Hastelloy C-276(*2) / Gold-plated (10 μm) (Diaphragm), F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316 SST

*1: ASTM CF-8M or SCS14A. Cast version of 316 SST.
*2: Hastelloy C-276 or Hastelloy C276 equivalent.
*3: Intergranular corrosion test passed according to ASTM A262 Practice E.
The '#'marks indicate the construction materials conform to NACE material recommendations per MR0175/ISO15156.
Please refer to the latest standards for details. Selected materials also conform to NACE MR0103.

■ OPTIONAL SPECIFICATIONS / Approval for Explosion-proof

Item	Description		Code
Flameproof packing adapter(*1)(*2)	Electrical connection: G1/2 female, Applicable cable outline: Ø8 to Ø12	1 pcs	/V11
		2 pcs	/V12

■ OPTIONAL SPECIFICATIONS / Hardware

Item		Description	Code
High Accuracy type(*15)		Reference accuracy: ±0.025% of Span	/HAC
Plug option(*5)		Long vent(*3)(*4): Total length: 119 mm (standard: 34 mm); Total length when combining with option code K□□: 130 mm. Material: 316 SST	/U1
		Without vent and drain plugs(*6)	/UN
Additional blind plug(*5)(*7)		Additional blind plug is attached to the conduit connection on both sides for storing transmitter	/PP
Painting	Color change	Color change, amplifier cover; Black	/P1
		Color change, amplifier cover; Jade green	/P2
		Color change, amplifier cover; Metric silver	/P7
		Color change, amplifier and terminal covers Munsell code; 7.5 R4/14, Red	/PR
	Coating Change	High anti-corrosion coating: Housing, amplifier and terminal covers(*8)	/X2
Surge protective device		UL1449, UL497B compliant device (SPD). ・3 kA crest (8 x 20 microseconds) ・6 kV crest (1.2 x 50 microseconds) Exchangeable	/A
Oil-prohibited use(*3)		Degrease cleansing treatment	/K01
		Degrease cleansing treatment with certificates	/K41
Oil-prohibited use with dehydrating treatment(*3)		Degrease cleansing and dehydrating treatment	/K05
		Degrease cleansing and dehydrating treatment with certificates	/K45
Wired tag plate		316 SST tag plate wired onto transmitter: up to 22 characters	/N4
Nameplate Indication	Range field	Blank the calibration range on the nameplate	/N5
	Maximum Pressure Limits (MWP) unit	P calibration (psi unit)	/D1
		bar calibration (bar unit)	/D3
		M calibration (kgf/cm^2 unit)	/D4
High-humidity option(*9)		For high-humidity environments	/HE
Bug screen(*5)(*6)(*33)		With bug screen to the process connection port of the low side cover flange	/BS
Gold-plated capsule gasket (*3)(*11)		Gold-plated 316L SST capsule gasket. Without drain and vent plugs.	/GS
Body option(*5)(*28)		Right side high pressure, without drain and vent plugs(*12)	/N1
		N1 and Process connection, based on IEC61518 with female thread on both sides of cover flange, with blind kidney flanges on back.(*13)(*14)	/N2
		N2, and Material certificate for cover flange, diaphragm, capsule body, and blind kidney flange(*13)(*14)	/N3
Functional safety(*29)		Without functional safety SIL 2	/SLN

■ OPTIONAL SPECIFICATIONS / Software

Item		Description	Code	Output signal code	
				J	T
Failure operation		Analog output levels compliant with NAMUR NE43 (Output signal limits: 3.8 mA to 20.5 mA Output status)	/C2	○	
Date configuration at factory	Parameter Setting	For HART communication type: Software damping, Descriptor and Message	/CA	○	
		For HART communication type: Disabling external zero adjustment, Software damping, Descriptor and Message	/CJ	○	
		For PROFINET communication type: Software damping, Descriptor and Memo	/CB		○
		For PROFINET communication type: Disabling external zero adjustment, Software damping, Descriptor and Memo	/CK		○
	Display Setting	Two engineering values are alternately displayed on the LCD.(*16)	/CF	○	○

■ OPTIONAL SPECIFICATIONS / Standards and Regulations

Item	Description	Code
European Pressure Equipment Directive(*5)(*17)	PED 2014/68/EU Category: III, Module: H, Type of Equipment: Pressure Accessory-Vessel, Type of Fluid: Liquid and Gas, Group of Fluid: 1 and 2	/PE3

■ OPTIONAL SPECIFICATIONS / Certificate

Item		Description		Code
Material certificate		Cover flange(*18)		/M01
		cover flange, Process connector(*19)		/M11
		Cover flange, Bolt and nut for cover flange(*18)		/M61
		Cover flange, Process connector, Bolt and nut for cover flange, Bolt for process connector(*19)		/M71
		Cover flange, Diaphragm, Capsule body(*18)(*20)		/MA1
		Cover flange, Process connector, Diaphragm, Capsule body(*19)(*21)		/MC1
		Cover flange, Bolt and Nut for cover flange, Diaphragm, Capsule body, Vent and Drain plug, Vent screw, Capsule gasket(*18)(*22)		/MG1
		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(*19)(*22)		/MH1
Material certificate list(*5)(*23)		Material certificate list		/YC
Parameter list(*5)(*24)		List of setting and adjustment parameters		/YP
Pressure test/Leak test certificate	H capsule	Test Pressure: 500 kPa (2000 inH2O)	Nitrogen Gas(*25) Retention time: one minute	/T11
	A capsule	Test Pressure: 3.5 MPa (500 psi)		/T01
	B capsule	Test Pressure: 16 MPa (2300 psi)		/T12
	C capsule	Test Pressure: 32 MPa (4500 psi)	Nitrogen Gas or Water(*26) Retention time: one minute	/T09
	D capsule	Test Pressure: 50 MPa (7200 psi)		/T08
Pressure test/Leak test certificate(*5)(*27)		Submit pressure test certificate and leak test certificate separately. Test pressure: According to the test pressure on the Pressure and Leak Test certificate.	Pressure test: Test Fluid: Water(*26) Test time: ten minutes	/YT
			Leakage test: Test Fluid: Nitrogen Gas(*25) or Water(*26) Test time: ten minutes	
Calibration certificate(*5)		Yokogawa measuring instruments control system		/L4
		Yokogawa measuring instruments control system, and primary standards list		/L5
		Yokogawa measuring instruments control system, primary standards list, and calibration equipments list		/L6
		Yokogawa measuring instruments control system, primary standards list, calibration equipments list and their test cert.		/L9

■ OPTIONAL SPECIFICATIONS / Warranty

Item	Description	Code
Warranty	3-years warranty	/WP3
	5-years warranty	/WP5

*1: Applicable for approval code -KNN and -NNN.
*2: Applicable for electrical connection code 0, 5, A and F.
*3: Applicable for wetted parts material code S, F, G, H, M and T.
*4: Applicable for installation code 2, 3, 6 and 7.
*5: Not applicable for process connection code W.
*6: Not applicable for installation code U.
*7: Applicable for electrical connection code 5, 7, 9, A, C and D. Not applicable for approval code -CF1, -CU1, -FF1, -FU1, -KF1, -KU1, -SF1, -SU1 and -VU1.
*8: Not applicable with color change option.
*9: Not applicable with flameproof packing adapter option code /V11 and /V12.
*10: Applicable for wetted parts material code S, F and G; and process connection code 0 and 5; and installation code 8 and 9 ; and option code /M01, /M61, /M71, and /MA1. Not applicable for option code /U1, /UN, /N2 and /N3.
*11: Applicable for installation code 9.
*12: Applicable for mounting bracket code B, J and N.
*13: Applicable for cpasule range code H, A, B, C and mounting bracket code N.
*14: Not applicable with material certificate option /M□□.
*15: Applicable for capsule range codeM, H and V; and wetted parts material code S and L; and bolts and nuts material code C, G and J.
*16: Not applicable for display and interface code N.
*17: Applicable for approval code -KF1, -KS1, -KU1, -KNN, -SF1, -SS1, -SU1, -VU1 and capsule range code C and D; and wetted parts material code S, F and G.
*18: Applicable for process connection code 0 and 5.
*19: Applicable for process connection code 1, 2, 3 and 4.
*20: Applicable for option code /UN, /N1, and /GS.
*21: Applicable for option code /UN and /N1.
*22: Not applicable for option code /UN, /N1 and /GS.
*23: Applicable for material certificate option /M□□.
*24: Applicable for output signal code J.
*25: Dry nitrogen gas is used for oil-prohibited use (option codes /K01, /K05, /K41 and /K45).
*26: Pure water is used for oil-prohibited use (option codes /K01, /K05, /K41 and /K45).
*27: Applicable for pressure test/leak test certificate code /T□□.
*28: A bug screen is attached to the hole of open to atmosphere of the low side cover flange.
*29: Required if output signal code T is selected.

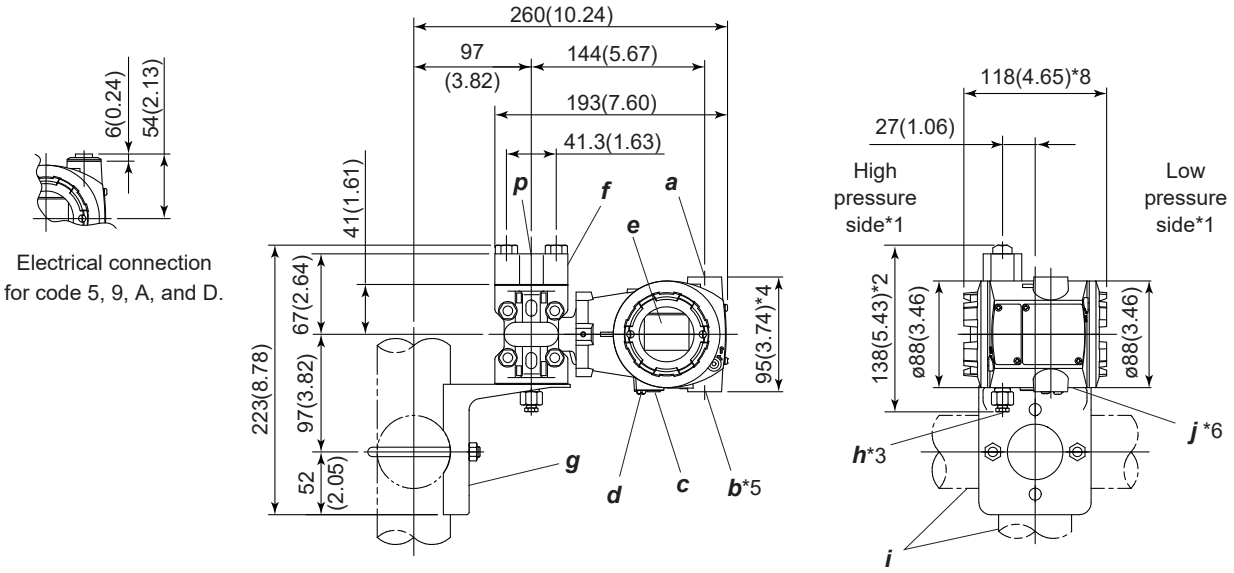
■ DIMENSIONS

Unit: mm (approx.inch)

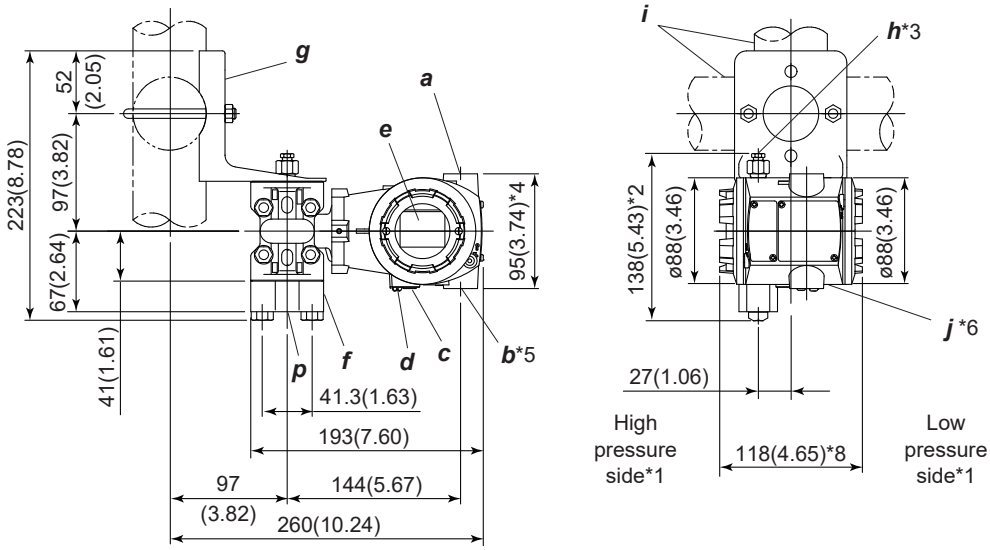
Wetted Parts Material Code: S, L, F, G, J, K and Capsule Range Code: H, A, B

● Vertical Impulse Piping Type

• Process connector upside (The drawing below is for Installation code 6.)



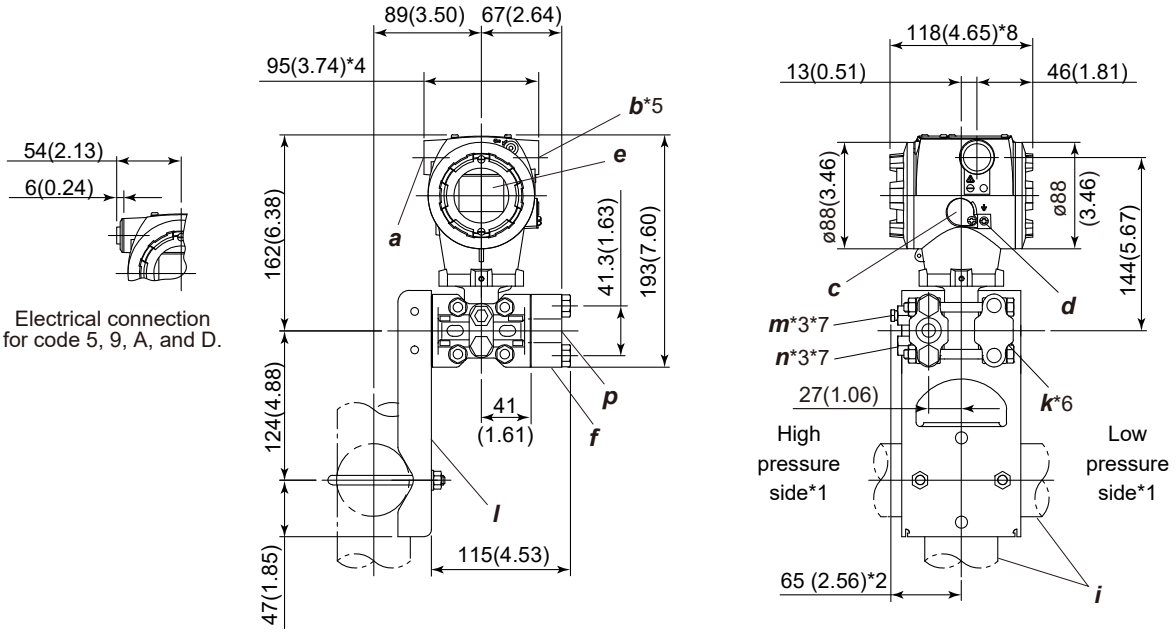
• Process connector downside (The drawing below is for Installation code 7.)



a	External indicator Conduit connection (optional)	***e***	Display (optional)	***i***	2-inch pipe (O.D. 60.5 mm)
b	Conduit connection	***f***	Process connector (optional)	***j***	Open to atmosphere (ø10)
c	Zero adjustment	***g***	Mounting bracket (L-type, optional)	***p***	Process connection
d	Ground terminal	***h***	Vent/Drain plugs		

Unit: mm (approx.inch)

● Horizontal Impulse Piping Type (The drawing below is for Installation code 9.)



a	External indicator Conduit connection (optional)	***e***	Display (optional)	***l***	Mounting bracket (Flat-type, optional)
b	Conduit connection	***f***	Process connector (optional)	***m***	Vent plug
c	Zero adjustment	***i***	2-inch pipe (O.D. 60.5 mm)	***n***	Drain plug
d	Ground terminal	***k***	Open to atmosphere (ø5)	***p***	Process connection

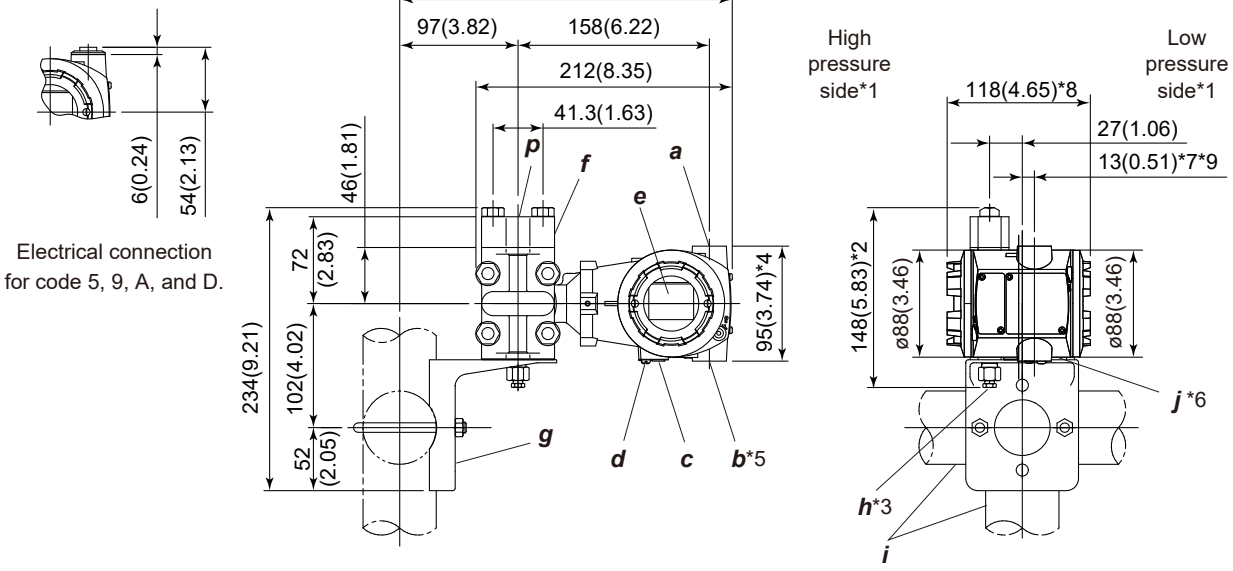
*1: In case of Installation code 2, 3, or 8 is specified, high and low pressure side on the above figure are reversed. (i.e. High pressure side is on the right side.)
*2: In case of optional codes /K01, /K05, /K41 and /K45 specified, add 15 mm (0.59 inch).
*3: In case of optional code /UN specified, plugs are not attached.
*4: In case of electrical connection code 7 or C is specified, a blind plug is protruded by up to 8 mm (0.31 inch) from conduit connection.
*5: In case of optional code /PP specified, a blind plug is attached to conduit connection on both sides.
*6: In case of optional code /BS specified, a bug screen is installed to the hole of open to atmosphere of the low side cover flange.
*7: In case of optional code /GS specified, plugs are not attached.
*8: In case of Display and interface code N specified, it is 113 mm (4.45 inch).

Unit: mm (approx.inch)

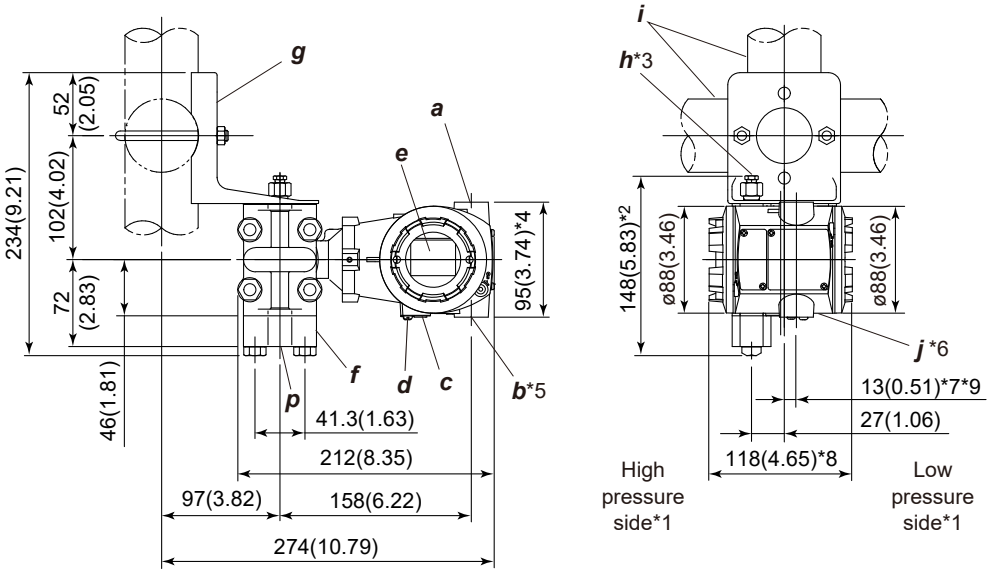
Wetted Parts Material Code: A, B, D, H, M, T, W and Capsule Range Code: H, A, B

● Vertical Impulse Piping Type

• Process connector upside (The drawing below is for Installation code 6.)



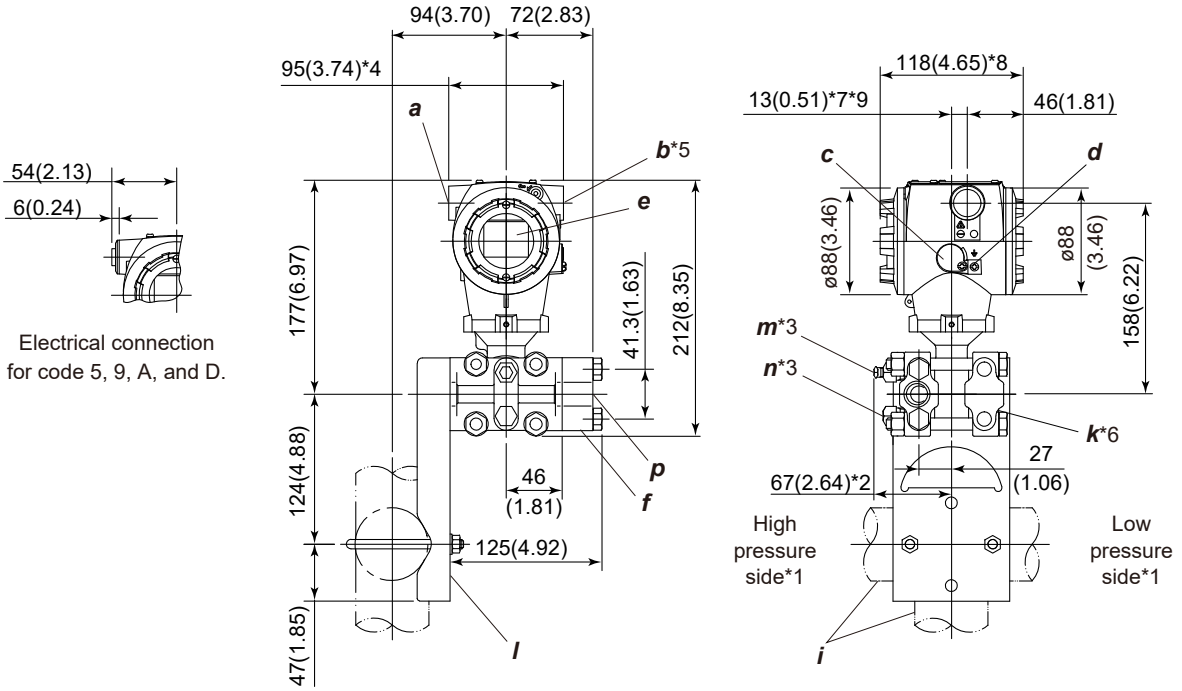
• Process connector downside (The drawing below is for Installation code 7.)



a	External indicator Conduit connection (optional)	***e***	Display (optional)	***i***	2-inch pipe (O.D. 60.5 mm)
b	Conduit connection	***f***	Process connector (optional)	***j***	Open to atmosphere (ø10)
c	Zero adjustment	***g***	Mounting bracket (L-type, optional)	***p***	Process connection
d	Ground terminal	***h***	Vent/Drain plugs		

Unit: mm (approx.inch)

● Horizontal Impulse Piping Type (The drawing below is for Installation code 9.)



a	External indicator Conduit connection (optional)	***e***	Display (optional)	***l***	Mounting bracket (Flat-type, optional)
b	Conduit connection	***f***	Process connector (optional)	***m***	Vent plug
c	Zero adjustment	***i***	2-inch pipe (O.D. 60.5 mm)	***n***	Drain plug
d	Ground terminal	***k***	Open to atmosphere (ø5)	***p***	Process connection

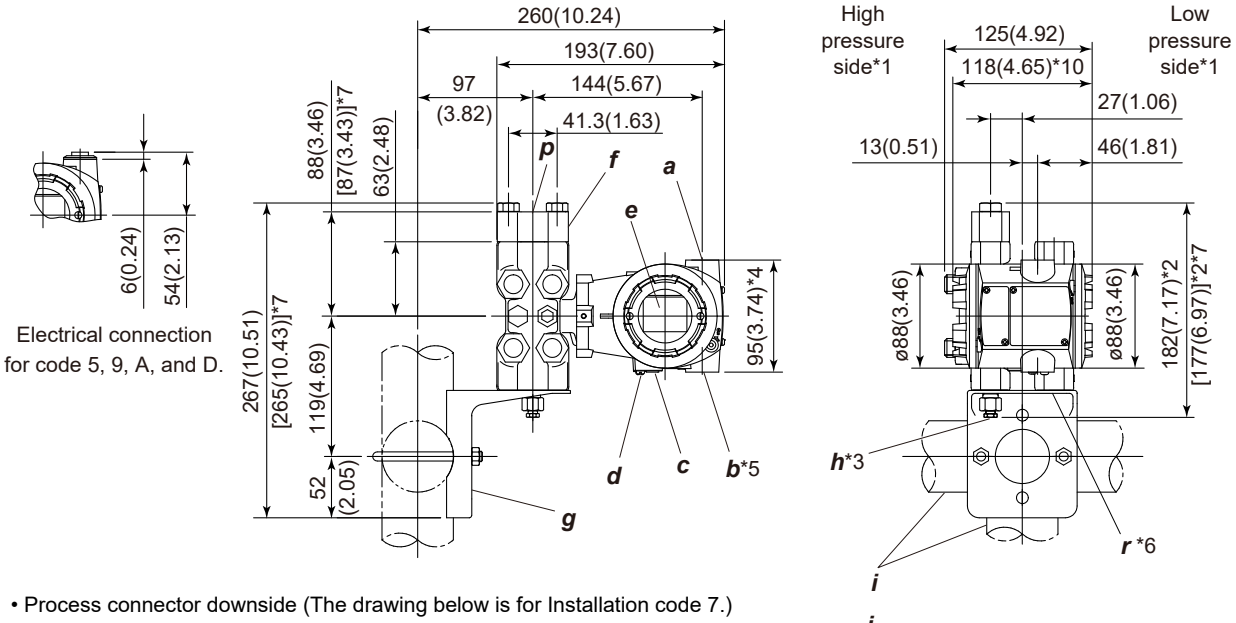
*1: In case of Installation code 2, 3, or 8 is specified, high and low pressure side on the above figure are reversed. (i.e. High pressure side is on the right side.)
*2: In case of optional codes /K01, /K05, /K41 and /K45 specified, add 15 mm (0.59 inch).
*3: In case of optional code /UN specified, plugs are not attached.
*4: In case of electrical connection code 7 or C is specified, a blind plug is protruded by up to 8 mm (0.31 inch) from conduit connection.
*5: In case of optional code /PP specified, a blind plug is attached to conduit connection on both sides.
*6: In case of optional code /BS specified, a bug screen is installed to the hole of open to atmosphere of the low side cover flange.
*7: In case of Installation code 2, 3, or 8 is specified, it is 16 mm (0.63 inch).
*8: In case of Display and interface code N specified, it is 113 mm (4.45 inch).
*9: In case of Capsule range code H is specified, it is 10 mm (0.39 inch).

Unit: mm (approx.inch)

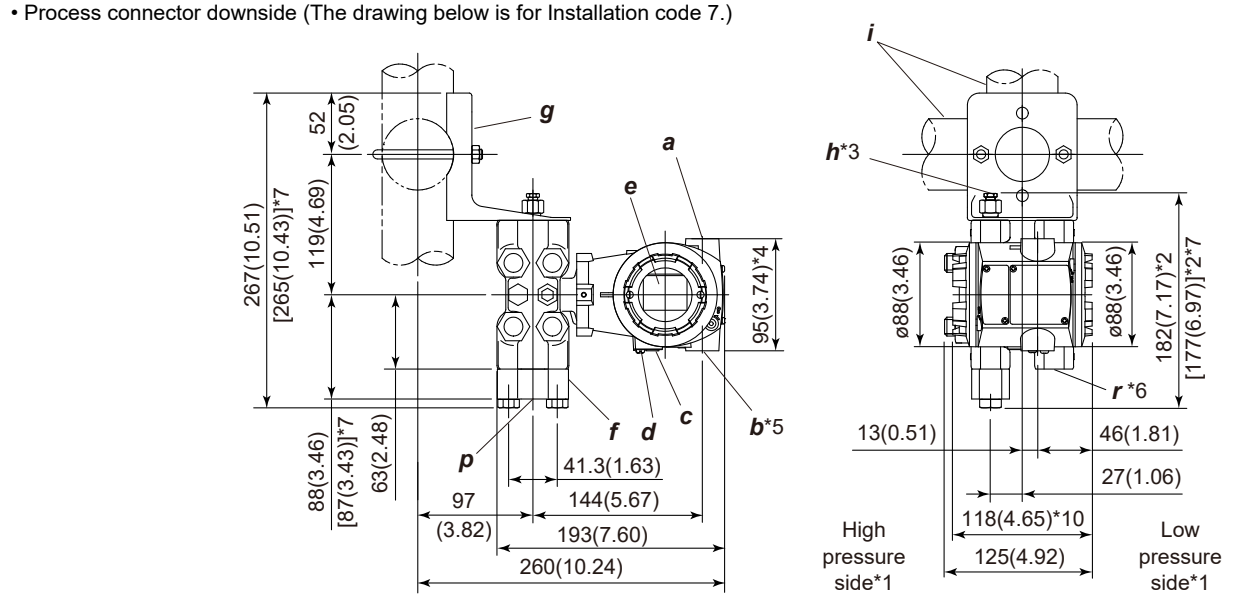
Capsule Range Code: C, D

● Vertical Impulse Piping Type

• Process connector upside (The drawing below is for Installation code 6.)



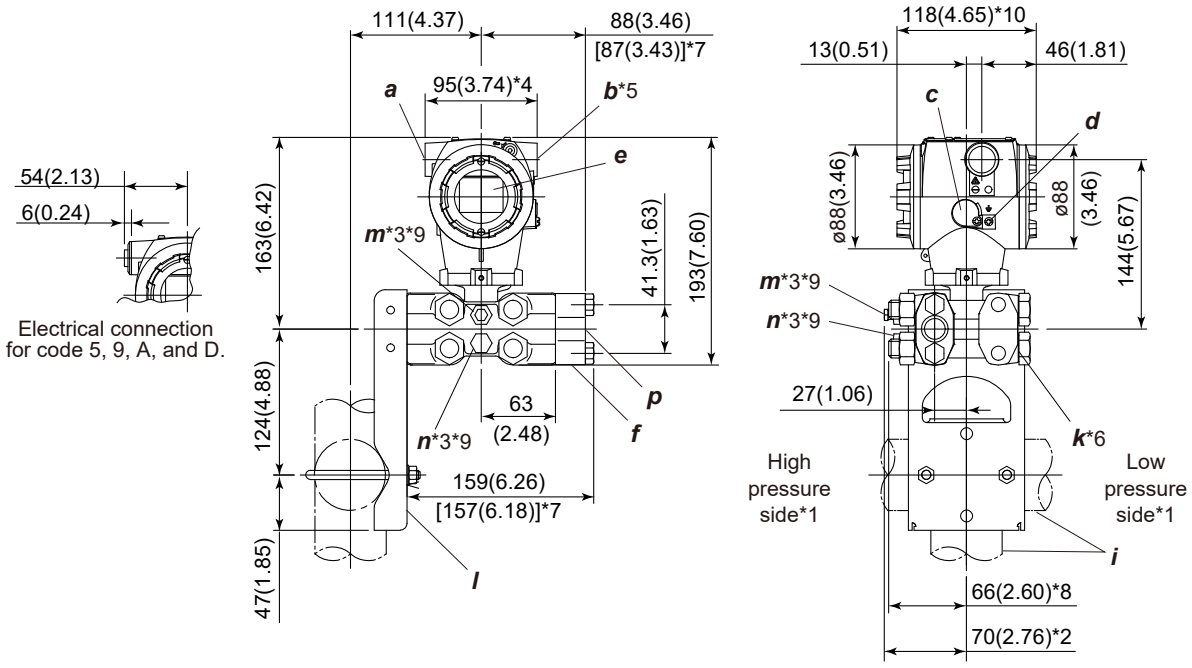
• Process connector downside (The drawing below is for Installation code 7.)



a	External indicator Conduit connection (optional)	***e***	Display (optional)	***i***	2-inch pipe (O.D. 60.5 mm)
b	Conduit connection	***f***	Process connector (optional)	***p***	Process connection
c	Zero adjustment	***g***	Mounting bracket (L-type, optional)	***r***	Open to atmosphere (ø9)
d	Ground terminal	***h***	Vent/Drain plugs		

Unit: mm (approx.inch)

● Horizontal Impulse Piping Type (The drawing below is for Installation code 9.)



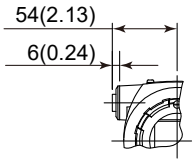
a	External indicator Conduit connection (optional)	***e***	Display (optional)	***l***	Mounting bracket (Flat-type, optional)
b	Conduit connection	***f***	Process connector (optional)	***m***	Vent plug
c	Zero adjustment	***i***	2-inch pipe (O.D. 60.5 mm)	***n***	Drain plug
d	Ground terminal	***k***	Open to atmosphere (ø5)	***p***	Process connection

*1: In case of Installation code 2, 3, or 8 is specified, high and low pressure side on the above figure are reversed. (i.e. High pressure side is on the right side.)
*2: In case of optional codes /K01, /K05, /K41 and /K45 specified, add 15 mm (0.59 inch).
*3: In case of optional code /UN specified, plugs are not attached.
*4: In case of electrical connection code 7 or C is specified, a blind plug is protruded by up to 8 mm (0.31 inch) from conduit connection.
*5: In case of optional code /PP specified, a blind plug is attached to conduit connection on both sides.
*6: In case of optional code /BS specified, a bug screen is installed to the hole of open to atmosphere of the low side cover flange.
*7: "[ ]" means for Capsule range code "D".
*8: Dimension for option code /UN.
*9: In case of optional code /GS specified, plugs are not attached.
*10: In case of Display and interface code N specified, it is 113 mm (4.45 inch).

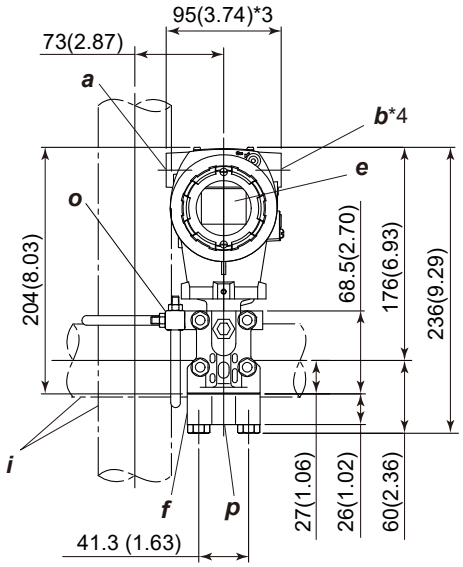
Unit: mm (approx.inch)

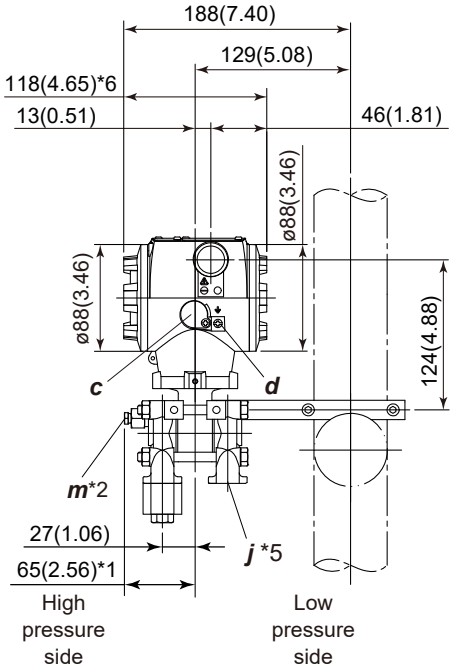
● Bottom Process Connection (The drawing below is for Installation code B.)

• Capsule Range Code: H, A, B



Electrical connection
for code 5, 9, A, and D.





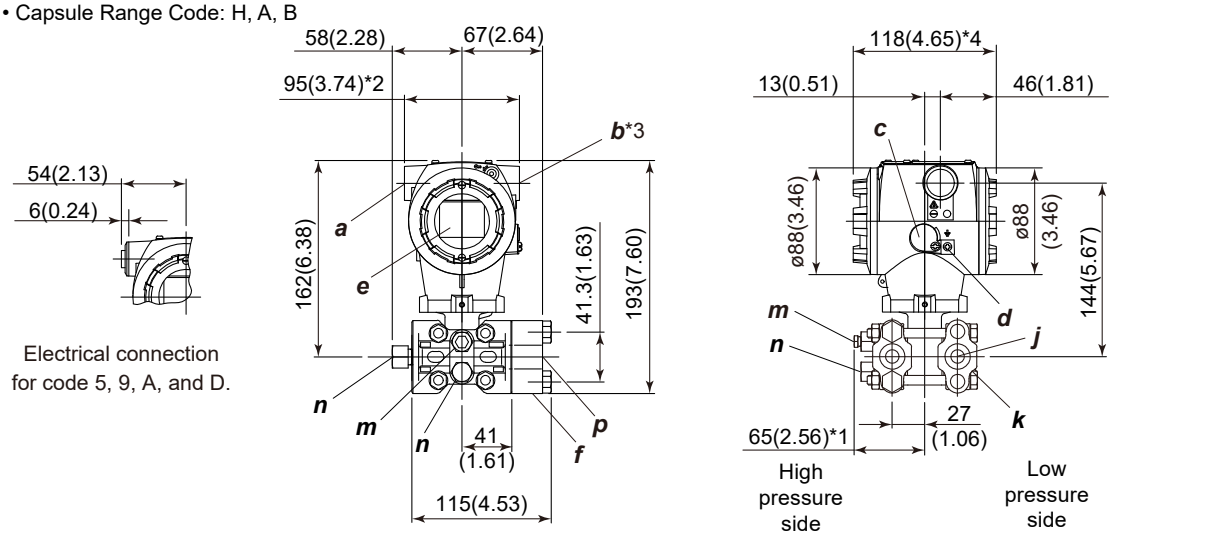
a	External indicator Conduit connection (optional)	***e***	Display (optional)	***m***	Vent plug
b	Conduit connection	***f***	Process connector (optional)	***o***	Mounting bracket (optional)
c	Zero adjustment	***i***	2-inch pipe (O.D. 60.5 mm)	***p***	Process connection
d	Ground terminal	***j***	Open to atmosphere (ø10)		

*1: In case of optional codes /K01, /K05, /K41 and /K45 specified, add 15 mm (0.59 inch).
*2: In case of optional code /UN specified, plugs are not attached.
*3: In case of electrical connection code 7 or C is specified, a blind plug is protruded by up to 8 mm (0.31 inch) from conduit connection.
*4: In case of optional code /PP specified, a blind plug is attached to conduit connection on both sides.
*5: In case of optional code /BS specified, a bug screen is installed to the hole of open to atmosphere of the low side cover flange.
*6: In case of Display and interface code N specified, it is 113 mm (4.45 inch).

Unit: mm (approx.inch)

● Universal Flange (The drawing below is for Installation code U.)

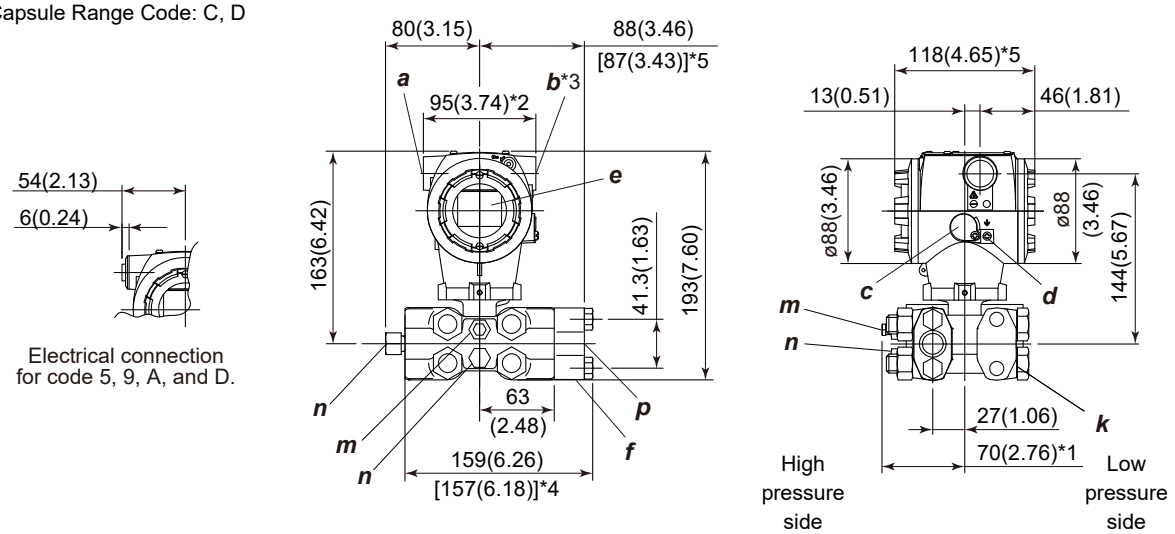
• Capsule Range Code: H, A, B



a	External indicator Conduit connection (optional)	***e***	Display (optional)	***m***	Vent plug
b	Conduit connection	***f***	Process connector (optional)	***n***	Drain plug
c	Zero adjustment	***j***	Open to atmosphere (ø10)	***p***	Process connection
d	Ground terminal	***k***	Open to atmosphere (ø5)		

*1: In case of optional codes /K01, /K05, /K41 and /K45 specified, add 15 mm (0.59 inch).
*2: In case of electrical connection code 7 or C is specified, a blind plug is protruded by up to 8 mm (0.31 inch) from conduit connection.
*3: In case of optional code /PP specified, a blind plug is attached to conduit connection on both sides.
*4: In case of Display and interface code N specified, it is 113 mm (4.45 inch).

• Capsule Range Code: C, D



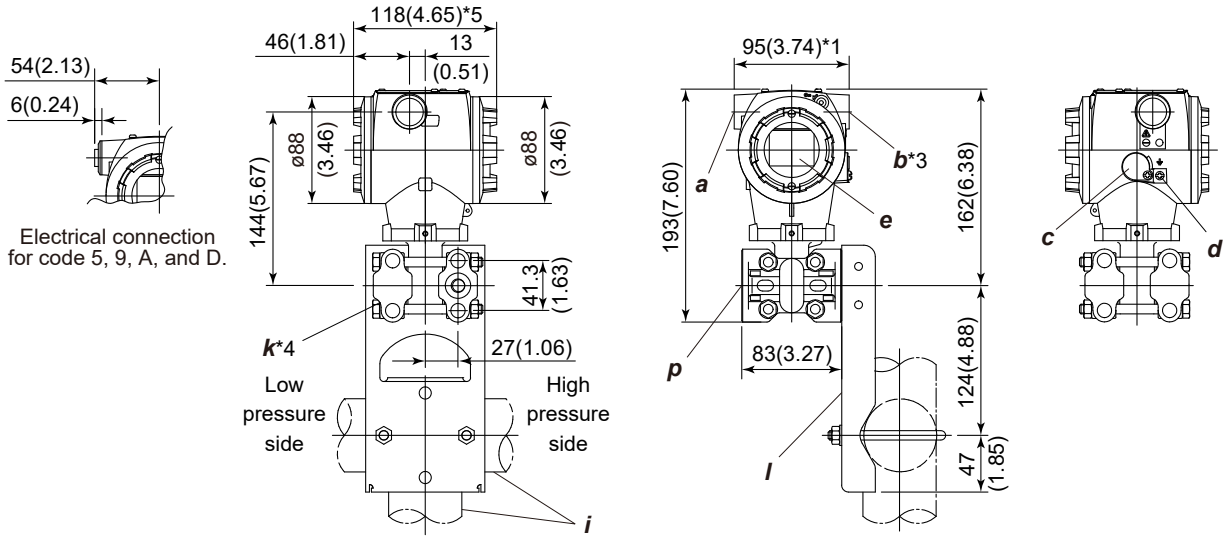
a	External indicator Conduit connection (optional)	***e***	Display (optional)	***n***	Drain plug
b	Conduit connection	***f***	Process connector (optional)	***p***	Process connection
c	Zero adjustment	***k***	Open to atmosphere (ø5)		
d	Ground terminal	***m***	Vent plug		

*1: In case of optional codes /K01, /K05, /K41 and /K45 specified, add 15 mm (0.59 inch).
*2: In case of electrical connection code 7 or C is specified, a blind plug is protruded by up to 8 mm (0.31 inch) from conduit connection.
*3: In case of optional code /PP specified, a blind plug is attached to conduit connection on both sides.
*4: "[ ]" means for Capsule Range Code "D".
*5: In case of Display and interface code N specified, it is 113 mm (4.45 inch).

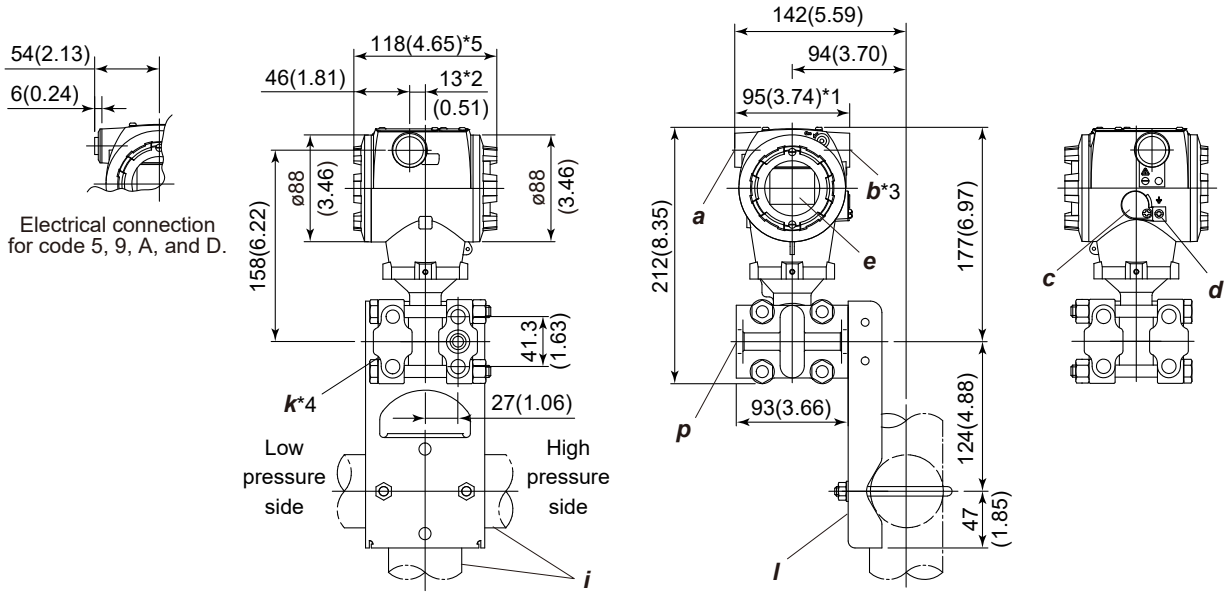
●Option Code /N1 Code

Unit: mm (approx.inch)

● EJX430S (Wetted Parts Material Code: S, F, G and Capsule Range Code: A, B, H)



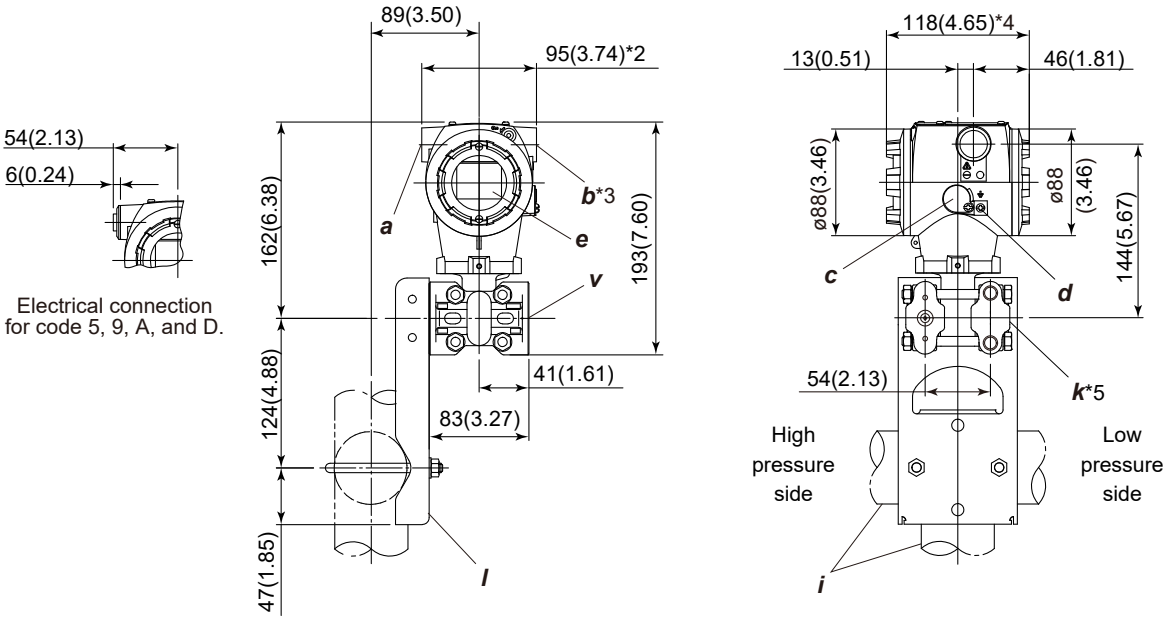
● EJX430S (Wetted Parts Material Code: H, M, T and Capsule Range Code: A, B, H)



a	External indicator Conduit connection (optional)	***d***	Ground terminal	***k***	Open to atmosphere (ø5)
b	Conduit connection	***e***	Display (optional)	***l***	Mounting bracket (Flat-type, optional)
c	Zero adjustment	***i***	2-inch pipe (O.D. 60.5 mm)	***p***	Process connection

Unit: mm (approx. inch)

● With Process connection code W*1

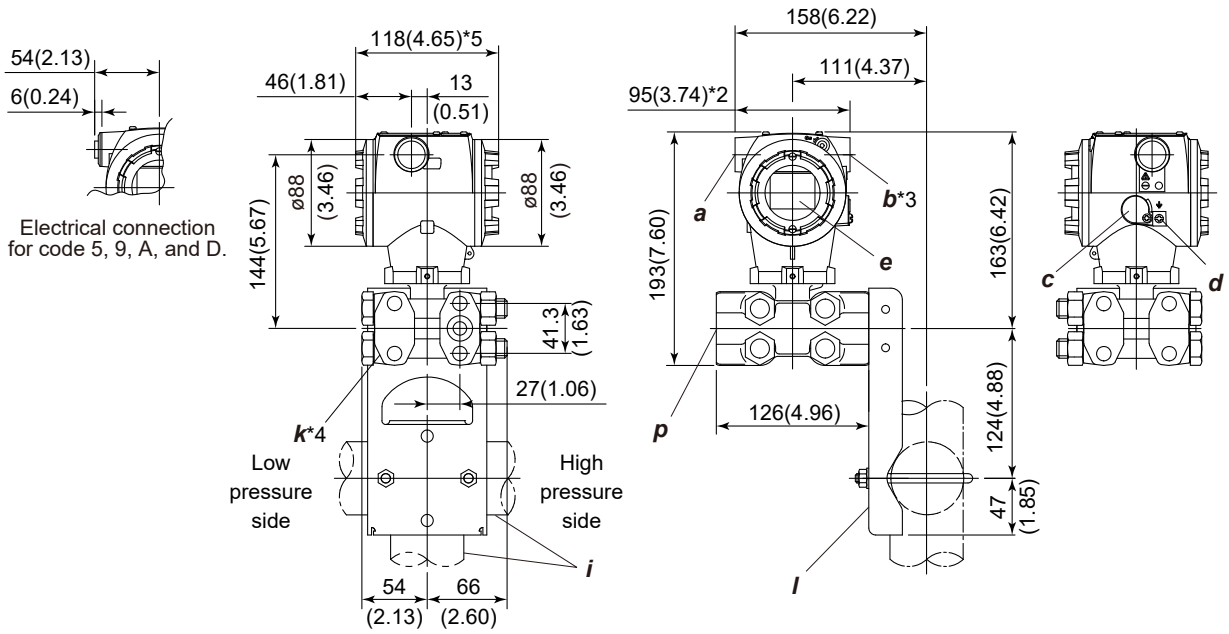


a	External indicator Conduit connection (optional)	***d***	Ground terminal	***k***	Open to atmosphere (ø5)
b	Conduit connection	***e***	Display (optional)	***l***	Mounting bracket (Flat-type, optional)
c	Zero adjustment	***i***	2-inch pipe (O.D. 60.5 mm)	***v***	Threads for diaphragm seal

*1: Process connection code W is for combination with the third party's diaphragm seal.
*2: In case of electrical connection code 7 or C is specified, a blind plug is protruded by up to 8 mm (0.31 inch) from conduit connection.
*3: In case of optional code /PP specified, a blind plug is attached to conduit connection on both sides.
*4: In case of Display and interface code N specified, it is 113 mm (4.45 inch).
*5: In case of optional code /BS specified, a bug screen is installed to the hole of open to atmosphere of the low side cover flange.

Unit: mm (approx.inch)

● EJX430S (Capsule Range Code: C, D)



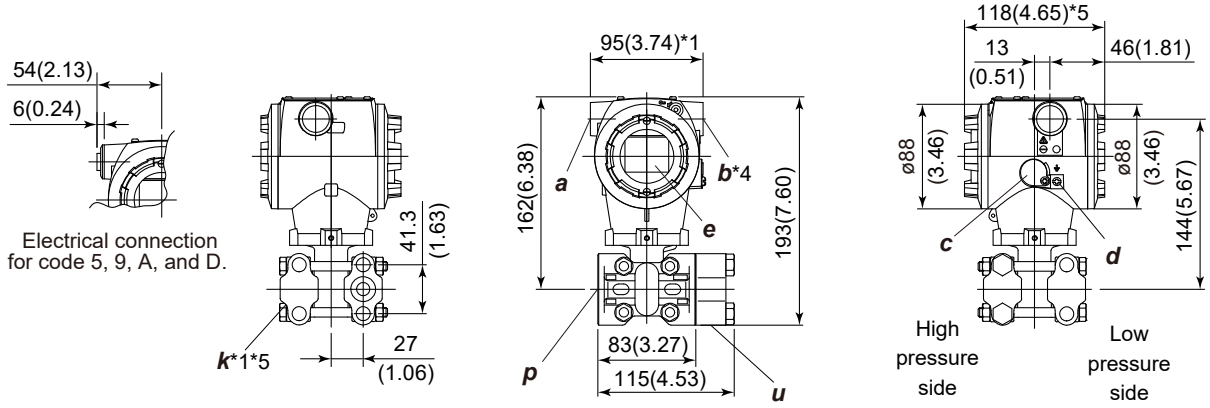
a	External indicator Conduit connection (optional)	***d***	Ground terminal	***k***	Open to atmosphere (ø5)
b	Conduit connection	***e***	Display (optional)	***l***	Mounting bracket (Flat-type, optional)
c	Zero adjustment	***i***	2-inch pipe (O.D. 60.5 mm)	***p***	Process connection

*1: In case of electrical connection code 7 or C is specified, a blind plug is protruded by up to 8 mm (0.31 inch) from conduit connection.
*2: In case of Capsule range code H is specified, it is 10 mm (0.39 inch).
*3: In case of optional code /PP specified, a blind plug is attached to conduit connection on both sides.
*4: In case of optional code /BS specified, the hole open to atmosphere on the cover flange of low pressure side is threaded and a bug screen is attached in it.
*5: In case of Display and interface code N specified, it is 113 mm (4.45 inch).

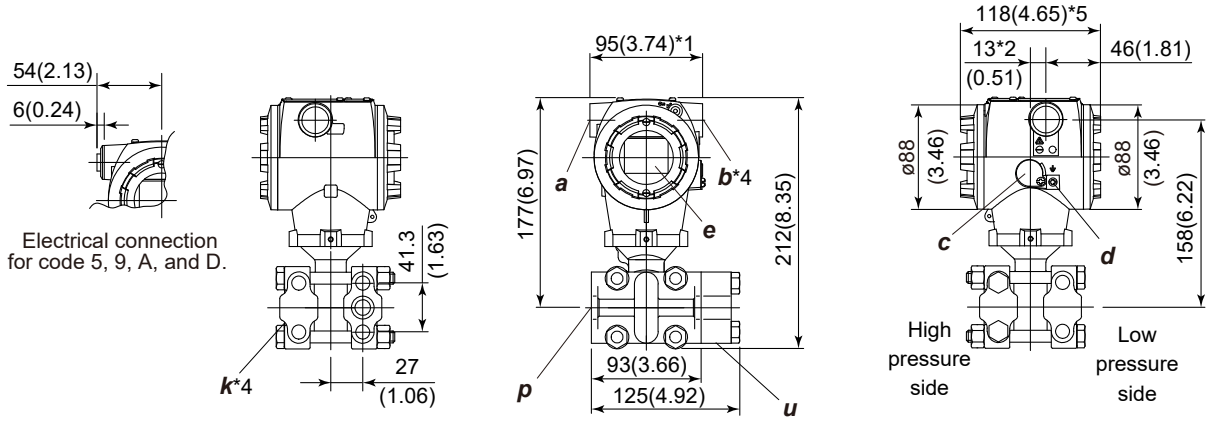
●Option /N2, /N3

Unit: mm (approx.inch)

● EJX430S (Wetted Parts Material Code: S, F, G and Capsule Range Code: A, B, H)



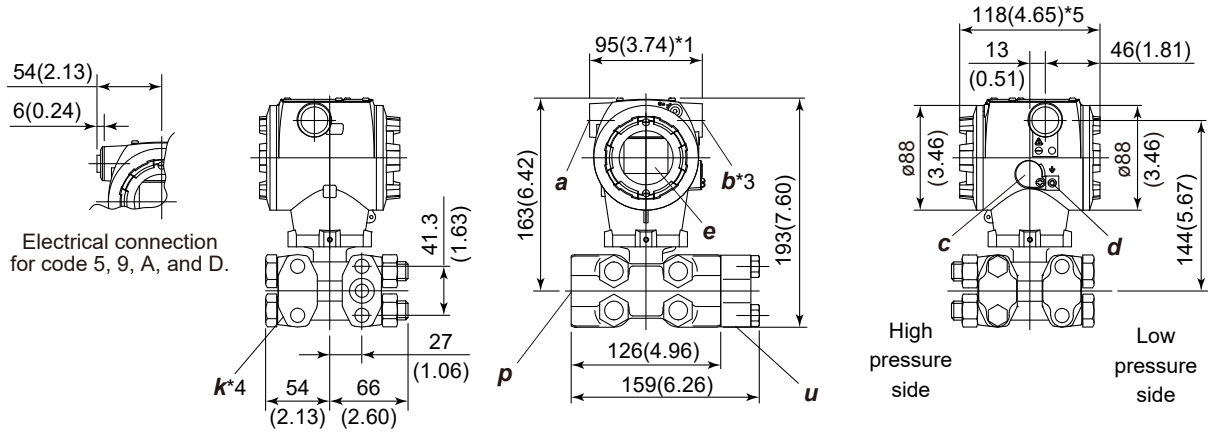
● EJX430S (Wetted Parts Material Code: H, M, T and Capsule Range Code: A, B, H)



a	External indicator Conduit connection (optional)	***e***	Display (optional)
b	Conduit connection	***k***	Open to atmosphere (ø5)
c	Zero adjustment	***p***	Process connection
d	Ground terminal	***u***	Blind kidney flange

Unit: mm (approx.inch)

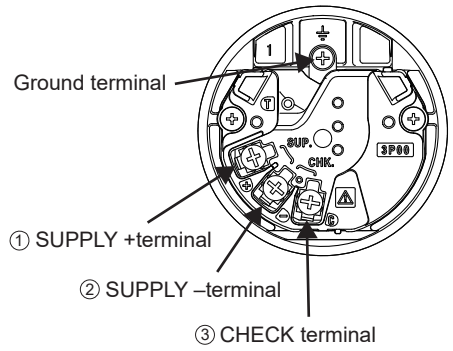
● EJX430S (Capsule Range Code: C, D)



a	External indicator Conduit connection (optional)	***e***	Display (optional)
b	Conduit connection	***k***	Open to atmosphere (ø5)
c	Zero adjustment	***p***	Process connection
d	Ground terminal	***u***	Blind kidney flange

*1: In case of electrical connection code 7 or C is specified, a blind plug is protruded by up to 8 mm (0.31 inch) from conduit connection.
*2: In case of Capsule range code H is specified, it is 10 mm (0.39 inch).
*3: In case of optional code /PP specified, a blind plug is attached to conduit connection on both sides.
*4: In case of optional code /BS specified, the hole open to atmosphere on the cover flange of low pressure side is threaded and a bug screen is attached in it.
*5: In case of Display and interface code N specified, it is 113 mm (4.45 inch).

● Terminal Configuration



● Terminal Wiring

SUPPLY	+ ① / – ②	Power supply and output terminals
CHECK	+ ③ / – ②	External indicator (ammeter) terminals *1
	⏚	Ground terminal

*1: When using an extarnal indicator or check meter, the internal resistance must be 10Ω or less. Not available for PROFINET communication type.

■ EXPLOSION PROTECTED TYPE

<table>
<tr><th>Item</th><th>Code</th><th>Description</th></tr>
<tr><td>Canadian Standards Association (CSA)</td><td>-CF1</td><td>Canada Flameproof Enclosure/ Dust ignition protection by enclosure

Zone
Certificate: FM25CA0015X

Applicable standard:
CSA C22.2 No. 60079-0, CSA C22.2 No. 60079-1, CSA C22.2 No. 60079-31,
CSA C22.2 No. 61010-1-12

Marking:
Flameproof Approval: Ex db IIC T6...T4 Gb
Dust-ignition protection by enclosure Approval: Ex tb IIIC T85°C Db

Ambient and Process temperature

<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td rowspan="3">Gas</td><td rowspan="3">-</td><td>T6</td><td>-60°C≤Ta≤+75°C</td><td>-60°C≤Tp≤+80°C</td></tr>
<tr><td>T5</td><td>-60°C≤Ta≤+80°C</td><td>-60°C≤Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-60°C≤Ta≤+75°C</td><td>-60°C≤Tp≤+120°C</td></tr>
</table>

<table>
<tr><th>Type</th><th>output</th><th>Maximum surface Temperature</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td>Dust</td><td>-</td><td>T85°C</td><td>-40°C≤Ta≤+75°C</td><td>-40°C≤Tp≤+80°C</td></tr>
</table>

Division
Certificate: FM25CA0015X

Applicable standard:
CSA C22.2 No. 25, CSA C22.2 No. 30, CSA C22.2 No. 94.2, CSA C22.2 No. 60079-40

Marking:
Explosionproof Approval: Class I, Division 1, Groups B, C and D;
Temperature class: T6...T4
Dust-Ignitionproof Approval: Class II/III, Division 1, Groups E, F and G;
Temperature class: T6

Ambient and Process temperature

<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td rowspan="3">Gas</td><td rowspan="3">-</td><td>T6</td><td>-50°C≤Ta≤+75°C</td><td>-50°C≤Tp≤+80°C</td></tr>
<tr><td>T5</td><td rowspan="2">-50°C≤Ta≤+80°C</td><td>-50°C≤Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-50°C≤Tp≤+130°C</td></tr>
</table>

<table>
<tr><th>Type</th><th>output</th><th>Maximum surface Temperature</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td>Dust</td><td>-</td><td>T6</td><td>-40°C≤Ta≤+75°C</td><td>-40°C≤Tp≤+80°C</td></tr>
</table>

Factory Sealed:
CONDUIT SEAL NOT REQUIRED

Process Seal:
Dual Seal Without Annunciation (up to 50 MPa)

Explosionproof MWP: 50 MPa</td></tr>
</table>

<table>
<tr><th>Item</th><th>Code</th><th colspan="2">Description</th></tr>
<tr><td rowspan="2">Canadian Standards Association (CSA)</td><td>-CS1</td><td colspan="2">Canada Intrinsically safe</td></tr>
<tr><td></td><td>Output signal Code:J
HART</td><td>
Intrinsically safe approval
Certificate: FM25CA0015X

Applicable standard:
CSA C22.2 No.0
C22.2 No. 94.2, C22.2 No.213, C22.2 No. 60079-0
CSA-C22.2 No. 60079-11,
CSA-C22.2 No. 61010-1-12,
CSA C22.2 No. 60079-40

Marking:
IS Class I, Division 1, Groups A, B, C, D;
Class II, Division 1, Groups E, F, G;
Class III, Division 1;
Temperature Code: T5…T4
Ex ia IIC T5…T4 Ga

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="2">Gas</td><td rowspan="2">-J</td><td>T5</td><td>-55°C≤Ta≤+40°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-55°C≤Ta≤+60°C</td><td>Tp≤+120°C</td></tr>
</table>
<table>
<tr><th>Type</th><th>output</th><th>Maximum surface temperature</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="3">Dust</td><td rowspan="3">-</td><td>T85°C</td><td rowspan="3">-40°C≤Ta≤+60°C</td><td>Tp≤+80°C</td></tr>
<tr><td>T100°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T120°C</td><td>Tp≤+115°C</td></tr>
</table>
Electrical parameter:
Ui=30 V, Ii=200 mA, Pi=1.0 W, Ci=22 nF, Li=0 mH

Non-incendive approval
Certificate: FM25CA0015X

Applicable standard:
CSA C22.2 No.0
C22.2 No. 94.2, C22.2 No.213, C22.2 No. 60079-0
CSA-C22.2 No. 60079-11,
CSA-C22.2 No. 61010-1-12,
CSA C22.2 No. 60079-40

Marking:
NIFW Class I, Division 2, Groups A, B, C, D;
Class II, Division 2, Groups F, G;
Class III, Division 1;
Temperature Code: T6…T4
CL I Zone 2, Group IIC T6...T4

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td rowspan="3">Gas
Dust</td><td rowspan="3">-J</td><td>T6</td><td>-40°C≤Ta≤+53°C</td><td>-40°C≤Tp≤+80°C</td></tr>
<tr><td>T5</td><td>-40°C≤Ta≤+66°C</td><td>-40°C≤Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-40°C≤Ta≤+80°C</td><td>-40°C≤Tp≤+130°C</td></tr>
</table>
Electrical parameter
Ui=42 V, Ci=22 nF, Li=0 mH
</td></tr>
<tr><td>-CU1</td><td colspan="2">Multiple type of protection (CF1 or CS1)</td></tr>
</table>

<table>
<tr><th>Item</th><th>Code</th><th>Description</th></tr>
<tr><td>FM explosion protection (USA)</td><td>-FF1</td><td>USA Flameproof Enclosure/ Dust ignition protection by enclosure

Zone
Certificate: FM25US0031X

Applicable standard:
ANSI/UL 60079-0, ANSI/UL 60079-1, ANSI/UL 60079-31, ANSI/UL 61010-1

Marking:
Flameproof Approval: Zone 1, AEx db IIC T6...T4 Gb
Dust-ignition protection by enclosure Approval: Zone 21, AEx tb IIIC T85°C Db

Ambient and Process temperature

<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td rowspan="3">Gas</td><td rowspan="3">-</td><td>T6</td><td>-50°C≤Ta≤+75°C</td><td>-60°C≤Tp≤+80°C</td></tr>
<tr><td>T5</td><td>-50°C≤Ta≤+80°C</td><td>-60°C≤Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-50°C≤Ta≤+75°C</td><td>-60°C≤Tp≤+120°C</td></tr>
</table>

<table>
<tr><th>Type</th><th>output</th><th>Maximum surface Temperature</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td>Dust</td><td>-</td><td>T85°C</td><td>-40°C≤Ta≤+75°C</td><td>-40°C≤Tp≤+80°C</td></tr>
</table>

Division
Certificate: FM25US0031X

Applicable standard:
FM 3600, FM 3615, FM 3616, FM 3810, ANSI/UL 50E, ANSI/UL 122701

Marking:
Explosionproof Approval: Class I, Division 1, Groups B, C and D;
Temperature class: T6...T4
Dust-Ignitionproof Approval: Class II/III,Division 1, Groups E, F and G;
Temperature class: T6

Enclosure: Type 4X

Ambient and Process temperature

<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td rowspan="3">Gas</td><td rowspan="3">-</td><td>T6</td><td>-40°C≤Ta≤+75°C</td><td>-40°C≤Tp≤+80°C</td></tr>
<tr><td>T5</td><td rowspan="2">-40°C≤Ta≤+80°C</td><td>-40°C≤Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-40°C≤Tp≤+130°C</td></tr>
</table>

<table>
<tr><th>Type</th><th>output</th><th>Maximum surface Temperature</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td>Dust</td><td>-</td><td>T6</td><td>-40°C≤Ta≤+75°C</td><td>-40°C≤Tp≤+80°C</td></tr>
</table>

Factory Sealed:
CONDUIT SEAL NOT REQUIRED

Process Seal:
Dual Seal Without Annunciation (up to 50 MPa)</td></tr>
</table>

<table>
<tr><th>Item</th><th>Code</th><th colspan="2">Description</th></tr>
<tr><td rowspan="2">FM explosion protection (USA)</td><td rowspan="2">-FS1</td><td colspan="2">USA intrinsically safe</td></tr>
<tr><td>Output signal Code:J
HART</td><td>
Intrinsically safe approval
Certificate: FM25US0031X

Applicable standard:
FM 3600, FM 3610, FM 3611, FM 3810,
ANSI/UL 60079-0, ANSI/UL 60079-11, UL 60079-47,
ANSI/UL 61010-1, ANSI/UL 121201, ANSI/UL 122701, ANSI/UL 50E

Marking:
IS Class I, Division 1, Groups A, B, C, D;
Class II, Division 1, Groups E, F, G;
Class III, Division 1;
Temperature Code: T5…T4
CL I Zone 0, AEx ia IIC T5…T4 Ga

Enclosure: Type 4X

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="2">Gas</td><td rowspan="2">-J</td><td>T5</td><td>-55°C≤Ta≤+40°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-55°C≤Ta≤+60°C</td><td>Tp≤+120°C</td></tr>
</table>
<table>
<tr><th>Type</th><th>output</th><th>Maximum surface temperature</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="3">Dust</td><td rowspan="3">-</td><td>T85°C</td><td rowspan="3">-40°C≤Ta≤+60°C</td><td>Tp≤+80°C</td></tr>
<tr><td>T100°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T120°C</td><td>Tp≤+115°C</td></tr>
</table>
Electrical parameter:
Ui=30 V, Ii=200 mA, Pi=1.0 W, Ci=22 nF, Li=0 mH

Non-incendive approval
Certificate: FM25US0031X

Applicable standard:
FM 3600, FM 3610, FM 3611, FM 3810,
ANSI/UL 60079-0, ANSI/UL 60079-11,
ANSI/UL 61010-1, ANSI/UL 121201, ANSI/UL 122701, ANSI/UL 50E

Marking:
NIFW Class I, Division 2, Groups A, B, C, D;
Class II, Division 2, Groups F, G;
Class III, Division 1;
Temperature Code: T6…T4
CL I Zone 2, Group IIC T6...T4

Enclosure: Type 4X

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td rowspan="3">Gas
Dust</td><td rowspan="3">-J</td><td>T6</td><td>-40°C≤Ta≤+53°C</td><td>-40°C≤Tp≤+80°C</td></tr>
<tr><td>T5</td><td>-40°C≤Ta≤+66°C</td><td>-40°C≤Ta≤+95°C</td></tr>
<tr><td>T4</td><td>-40°C≤Ta≤+80°C</td><td>-40°C≤Tp≤+130°C</td></tr>
</table>
Electrical parameter:
Ui=42 V, Ci=22 nF, Li=0 mH
</td></tr>
</table>

<table>
<tr><th>Item</th><th>Code</th><th colspan="2">Description</th></tr>
<tr><td rowspan="2">FM explosion protection (USA)</td><td>-FS1</td><td>Output signal Code:T
PROFINET</td><td>Certificate: FM25US0031X

Applicable standard:
FM 3600, FM 3610, FM 3611, FM 3810,
ANSI/UL 60079-0, ANSI/UL 60079-11, UL 60079-47,
ANSI/UL 61010-1, ANSI/UL 121201, ANSI/UL 122701, ANSI/UL 50E

Marking:
IS Class I, Division 1, Groups A, B, C, D;
Class II, Division 1, Groups E, F, G;
Class III, Division 1;
Temperature Code: T5…T4
CL I Zone 0, AEx ia IIC T5…T4 Ga

Enclosure: Type 4X

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="2">Gas</td><td rowspan="2">-T</td><td>T5</td><td>-40°C≤Ta≤+40°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-40°C≤Ta≤+60°C</td><td>Tp≤+120°C</td></tr>
</table>
<table>
<tr><th>Type</th><th>output</th><th>Maximum surface temperature</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="3">Dust</td><td rowspan="3">-</td><td>T85°C</td><td rowspan="3">-40°C≤Ta≤+60°C</td><td>Tp≤+80°C</td></tr>
<tr><td>T100°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T120°C</td><td>Tp≤+115°C</td></tr>
</table>
Electrical parameter:
2-WISE power load</td></tr>
<tr><td>-FU1</td><td colspan="2">Multiple type of protection (FF1 or FS1)</td></tr>
<tr><td rowspan="2">ATEX</td><td rowspan="2">-KF1</td><td colspan="2">ATEX Flameproof Enclosure/ Dust ignition protection by enclosure</td></tr>
<tr><td colspan="2">Certificate: FM25ATEX0009X

Applicable standard:
EN IEC 60079-0, EN 60079-1, EN 60079-31

Marking:
Flameproof Approval: II 2 G Ex db IIC T6...T4 Gb
Dust-Ignitionproof Approval: II 2 D Ex tb IIIC T85°C Db

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td rowspan="3">Gas</td><td rowspan="3">-</td><td>T6</td><td>-60°C≤Ta≤+75°C</td><td>-60°C≤Tp≤+80°C</td></tr>
<tr><td>T5</td><td>-60°C≤Ta≤+80°C</td><td>-60°C≤Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-60°C≤Ta≤+75°C</td><td>-60°C≤Tp≤+120°C</td></tr>
</table>
<table>
<tr><th>Type</th><th>output</th><th>Maximum surface Temperature</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td>Dust</td><td>-</td><td>T85°C</td><td>-40°C≤Ta≤+75°C</td><td>-40°C≤Tp≤+80°C</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Item</th><th>Code</th><th>Description</th></tr>
<tr><td rowspan="3">ATEX</td><td>-KS1</td><td colspan="2">ATEX intrinsically safe</td></tr>
<tr><td>Output signal Code:J
HART</td><td>
Intrinsically safe ia
Certificate: FM25ATEX0009X

Applicable standard:
EN IEC 60079-0, EN 60079-11

Marking:
II 1 G Ex ia IIC T5…T4 Ga, II 2 D Ex ia IIIC T85°C...T120°C Db, II 3 G Ex ic IIC T5…T4 Gc

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="2">Gas</td><td rowspan="2">-J</td><td>T5</td><td>-55°C≤Ta≤+40°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-55°C≤Ta≤+60°C</td><td>Tp≤+120°C</td></tr>
</table>
<table>
<tr><th>Type</th><th>output</th><th>Maximum surface temperature</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="3">Dust</td><td rowspan="3">-</td><td>T85°C</td><td rowspan="3">-40°C≤Ta≤+60°C</td><td>Tp≤+80°C</td></tr>
<tr><td>T100°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T120°C</td><td>Tp≤+115°C</td></tr>
</table>
Electrical Parameter:
Ui=30 V, Ii=200 mA, Pi=1.0 W, Ci=22 nF, Li=0 mH

Intrinsically safe ic
Declaration of conformity
Applicable standard:
EN IEC 60079-0, EN 60079-11

Marking:
II 3 G Ex ic IIC T5…T4 Gc

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td rowspan="2">Gas</td><td rowspan="2">-J</td><td>T5</td><td>-40°C≤Ta≤+40°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-40°C≤Ta≤+60°C</td><td>Tp≤+120°C</td></tr>
</table>
Electrical Parameter:
Ui=42 V, Ci=22 nF, Li=0 mH
</td></tr>
<tr><td>Output signal Code:T
PROFINET</td><td>
Certificate: FM25ATEX0009X

Applicable standard:
EN IEC 60079-0, EN 60079-11, CLC IEC/TS 60079-47

Marking:
II 1 G Ex ia IIC T5…T4 Ga, II 2 D Ex ia IIIC T85°C...T120°C Db

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="2">Gas</td><td rowspan="2">-T</td><td>T5</td><td>-40°C≤Ta≤+40°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-40°C≤Ta≤+60°C</td><td>Tp≤+120°C</td></tr>
</table>
<table>
<tr><th>Type</th><th>output</th><th>Maximum surface temperature</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="3">Dust</td><td rowspan="3">-</td><td>T85°C</td><td rowspan="3">-40°C≤Ta≤+60°C</td><td>Tp≤+80°C</td></tr>
<tr><td>T100°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T120°C</td><td>Tp≤+115°C</td></tr>
</table>
Electrical parameter:
2-WISE power load
</td></tr>
<tr><td>-KU1</td><td colspan="2">Multiple type of protection (KF1 or KS1)</td></tr>
</table>

<table>
<tr><th>Item</th><th>Code</th><th>Description</th></tr>
<tr><td rowspan="2">IECEx explosion protection</td><td>-SF1</td><td>IECEx Flameproof Enclosure/ Dust ignition protection by enclosure

Certificate: IECEx FMG 25.0002X

Applicable standard:
IEC 60079-0, IEC 60079-1, IEC 60079-31

Marking:
Flameproof Approval: Ex db IIC T6…T4 Gb
Dust-Ignitionproof Approval: Ex tb IIIC T85°C Db

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient Temperature</th><th>Process Temperature</th></tr>
<tr><td rowspan="3">Gas</td><td rowspan="3">-</td><td>T6</td><td>-60°C≤Ta≤+75°C</td><td>-60°C≤Tp≤+80°C</td></tr>
<tr><td>T5</td><td>-60°C≤Ta≤+80°C</td><td>-60°C≤Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-60°C≤Ta≤+75°C</td><td>-60°C≤Tp≤+120°C</td></tr>
</table>
<table>
<tr><th>Type</th><th>output</th><th>Maximum surface temperature</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td>Dust</td><td>-</td><td>T85°C</td><td>-40°C≤Ta≤+75°C</td><td>-40°C≤Tp≤+80°C</td></tr>
</table></td></tr>
<tr><td>-SS1</td><td>IECEx Intrinsically safe

Output signal Code:J
HART

Intrinsically safe ia
Certificate: IECEx FMG 25.0002X

Applicable standard:
IEC 60079-0, IEC 60079-11

Marking:
Ex ia IIC T5…T4 Ga, Ex ia IIIC T85°C…T120°C Db

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="2">Gas</td><td rowspan="2">-J</td><td>T5</td><td>-55°C≤Ta≤+40°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-55°C≤Ta≤+60°C</td><td>Tp≤+120°C</td></tr>
</table>
<table>
<tr><th>Type</th><th>output</th><th>Maximum surface temperature</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="3">Dust</td><td rowspan="3">-</td><td>T85°C</td><td rowspan="3">-40°C≤Ta≤+60°C</td><td>Tp≤+80°C</td></tr>
<tr><td>T100°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T120°C</td><td>Tp≤+115°C</td></tr>
</table>
Electrical Parameter:
Ui=30 V, Ii=200 mA, Pi=1.0 W, Ci=22 nF, Li=0 mH

Intrinsically safe ic
Certificate: IECEx FMG 25.0002X

Applicable standard:
IEC 60079-0, IEC 60079-11

Marking:
Ex ic IIC T5…T4 Gc

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="2">Gas</td><td rowspan="2">-J</td><td>T5</td><td>-40°C≤Ta≤+40°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-40°C≤Ta≤+60°C</td><td>Tp≤+120°C</td></tr>
</table>
Electrical Parameter:
Ui=42 V, Ci=22 nF, Li=0 mH</td></tr>
</table>

<table>
<tr><th>Item</th><th>Code</th><th colspan="2">Description</th></tr>
<tr><td rowspan="2">IECEx explosion protection</td><td>-SS1</td><td>Output signal Code:T
PROFINET</td><td>Certificate: IECEx FMG 25.0002X

Applicable standard:
IEC 60079-0, IEC 60079-11, IEC TS 60079-47

Marking:
Ex ia IIC T5…T4 Ga, Ex ia IIIC T85°C…T120°C Db

Ambient and Process temperature
<table>
<tr><th>Type</th><th>output</th><th>Temperature class</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="2">Gas</td><td rowspan="2">-T</td><td>T5</td><td>-40°C≤Ta≤+40°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T4</td><td>-40°C≤Ta≤+60°C</td><td>Tp≤+120°C</td></tr>
</table>
<table>
<tr><th>Type</th><th>output</th><th>Maximum surface temperature</th><th>Ambient temperature</th><th>Process temperature</th></tr>
<tr><td rowspan="3">Dust</td><td rowspan="3">-</td><td>T85°C</td><td rowspan="3">-40°C≤Ta≤+60°C</td><td>Tp≤+80°C</td></tr>
<tr><td>T100°C</td><td>Tp≤+95°C</td></tr>
<tr><td>T120°C</td><td>Tp≤+115°C</td></tr>
</table>

Electrical parameter:
2-WISE power load</td></tr>
<tr><td>-SU1</td><td colspan="2">Multiple type of protection (SF1 or SS1)</td></tr>
<tr><td>Combination of Approval</td><td>-VU1</td><td colspan="2">Combination of KU1, FU1, CU1 and SU1</td></tr>
</table>

< Ordering Information >

1. Model, suffix codes, and option codes
2. Calibration range, unit and output mode
   This product requires sizing to determine the differential pressure range and orifice diameter at the time of ordering. Please contact our sales office.
   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 -99999 to 99999. 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) Specify output mode from LINEAR or SQUARE ROOT. When SQUARE ROOT is selected, the smaller value of the range limit must be zero.
3. Display scale, unit and display mode (for transmitters equipped with Display only)
   Specify either 0 to 100 % or unit scale and 'Range and Unit' for 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 -99999 to 99999. 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.
   Select either LINEAR or SQRT for the display mode.
   For PROFINET communication, select from the display unit options and select LINEAR when the output mode is LINEAR, and select SQRT when the output mode is SQUARE ROOT.
   When SQUARE ROOT is selected for display mode, the smaller value of the scale limit must be zero.
4. TAG NO (if required)
5. Parameter Setting (Optional code /CB, /CA, /CK, /CJ)
   • Software damping in second (0.00 to 100.00)
   • Descriptor (up to 16 characters)
   • Message (Optional code: /CA and /CJ): up to 32 characters
   • Memo (Optional code /CB and /CK) up to 32 character
6. Burnout direction setting (for HART protocol) High or Low
7. Network setting (for PROFINET protocol)
   Specify the IP ADDRESS, SUBNET MASK, DEFAULT GATEWAY, and STATION NAME.
   If you specify it, please specify a combination of settings that can be communicated.

< Factory Setting >

Tag number. (*1)	As specified in order: up to 22 characters (SOFTWARE TAG: up to 32 characters)
Software damping	2.00 s or as specified in order
Calibration range lower range value	As specified in order
Calibration range upper range value	As specified in order
Calibration range units	Selected from Pa, hPa, kPa, MPa, mbar, bar, gf/cm^2, mmH_2O, mmH_2O(68°F), mmAq(*2), mmWG(*2), mmHg, gf/cm^2, kgf/cm^2, inH_2O, inH_2O(68°F), inHg, ftH_2O, ftH_2O(68°F) or psi. (Only one unit can be specified)
Display setting	Designated value specified in order. (%, or user scaled value.)
Burnout (for HART protocol)	'High' unless otherwise specified in order
Network setting (for PROFINET protocol)	Unless otherwise specified, - IP ADDRESS: 192.168.1.210 - SUBNET MASK: 255.255.255.0 - DEFAULT GATEWAY: 0.0.0.0 - STATION NAME: pressure-transmitter-ejx-s (*3)

*1: The specified characters will be engraved on the tag plate and written into the main unit (communication parameters) before shipping.
If you want to specify characters different from the tag plate, please specify it separately in the software tag.
Available characters include uppercase and lowercase letters, numbers, spaces, and the following symbols.

!	#	(	)	+	-	.	/	:	=	_

For HART communication type, the tag parameter will be written using the first 8 characters. If lowercase letters are included, they will be converted to uppercase.

*2: Not available for HART protocol type.

*3: The STATION NAME can be a combination of lowercase letters, numbers, and hyphens, up to 40 characters long.

< Related Instruments >

FieldMate Versatile Device Management Wizard: Refer to GS 01R01A01-01E.

< Reference >

1. FieldMate; Trademark of Yokogawa Electric Corporation.
2. Hastelloy; Trademark of Haynes International Inc.
3. HART®: Registered trademark of the FieldComm Group.

Other company names and product names used in this material are registered trademarks or trademarks of their respective owners.

< 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.