General Specifications

GS 01C33F30-01EN

OpreX™ Pressure Transmitter
EJX510S/EJX530S
Absolute and Gauge Pressure Transmitter

■ OVERVIEW

The high performance absolute and gauge pressure transmitter EJX510S and EJX530S feature single crystal silicon resonant sensor and is suitable to measure liquid, gas, or steam flow as well as liquid level, density and pressure. EJX510S and EJX530S output 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

Model	Capsule range code	MPa		psi (/D1)		bar (/D3)		kgf/cm² (/D4)	
		Range	Span	Range	Span	Range	Span	Range	Span
EJX510S	A	0 to 200 kPa abs	2 to 200 kPa abs	0 to 29	0.29 to 29	0 to 2	0.02 to 2	0 to 2	0.02 to 2
	B	0 to 2	0.01 to 2	0 to 290	1.45 to 290	0 to 20	0.1 to 20	0 to 20	0.1 to 20
	C	0 to 10	0.05 to 10	0 to 1450	7.25 to 1450	0 to 100	0.5 to 100	0 to 101	0.5 to 101
	D	0 to 70	0.35 to 70	0 to 10152	50 to 10152	0 to 700	3.5 to 700	0 to 713	3.5 to 713
EJX530S	A	-100 to 200 kPa	2 to 200 kPa	-14.5 to 29	0.29 to 29	-1 to 2	0.02 to 2	-1 to 2	0.02 to 2
	B	-0.1 to 2	0.01 to 2	-14.5 to 290	1.45 to 290	-1 to 20	0.1 to 20	-1 to 20	0.1 to 20
	C	-0.1 to 10	0.05 to 10	-14.5 to 1450	7.25 to 1450	-1 to 100	0.5 to 100	-1 to 101	0.5 to 101
	D	-0.1 to 70	0.35 to 70	-14.5 to 10152	50 to 10152	-1 to 700	3.5 to 700	-1 to 713	3.5 to 713

□ Pressure limits

Model	Measurement Span	Maximum Over Pressure	Burst Pressure Limits
EJX510S	A	4 MPa abs (580 psia)	30 MPa abs
	B	4 MPa abs (580 psia)	30 MPa abs
	C	20 MPa abs (2900 psia)	30 MPa abs
	D	105 MPa abs (15200 psia)	182 MPa abs
EJX530S	A	4 MPa (580 psig)	30 MPa
	B	4 MPa (580 psig)	30 MPa
	C	20 MPa (2900 psig)	30 MPa
	D	105 MPa (15200 psig)	182 MPa

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GS 01C33F30-01EN

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□ 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.

Model	Capsule Range code	Wetted Parts Material code	Optional Code	Reference Accuracy		X	URL (Upper Range Limit)
				Span≥X	Span<X		
EJX510S	A	S	-	±0.04%	±(0.004 URL/span)%(*1)	20 kPa abs (2.9 psia)	200 kPa abs (29 psia)
	B			±0.035%	±(0.0035 URL/span)%	0.2 MPa abs (29 psia)	2 MPa abs (290 psia)
	C					1 MPa abs (145 psia)	10 MPa abs (1450 psia)
	D					7 MPa abs (1015 psia)	70 MPa abs (10152 psia)
EJX530S	A	S	-	±0.04%	±(0.004 URL/span)%(*1)	20 kPa (2.9 psi)	200 kPa (29 psi)
	B			±0.035%	±(0.0035 URL/span)%	0.2 MPa (29 psi)	2 MPa (290 psi)
	C					1 MPa (145 psi)	10 MPa (1450 psi)
	D					7 MPa (1015 psi)	70 MPa (10152 psi)
	A	S	/HAC	±0.025%	±(0.008+0.006 URL/span)%(*2)	70 kPa (10 psi)	200 kPa (29 psi)
	B	F, H			±(0.005+0.002 URL/span)%	0.2 MPa (29 psi)	2 MPa (290 psi)
	C					1 MPa (145 psi)	10 MPa (1450 psi)
	D					7 MPa (1015 psi)	70 MPa (10152 psi)

*1: In instances where the span falls below 8 kPa, the calculation is to be multiplied by a factor of two.
*2: In instances where a negative pressure is included or where the span falls below 70 kPa, the accuracy is equivalent to that of the /HAC-less.

Measurement span	A	B	C	D
X	20 kPa (2.9 psi)	0.2 MPa (29 psi)	1 MPa (145 psi)	7 MPa (1015 psi)
URL (Upper range limit)	200 kPa (29 psi)	2 MPa (290 psi)	10 MPa (1450 psi)	70 MPa (10150 psi)

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

A capsule: ±(0.04% of Span + 0.075% of URL)
B capsule: ±(0.04% of Span + 0.018% of URL)
C and D capsule: ±(0.04% of Span + 0.009% of URL)

Stability (All normal operating condition):

EJX530S: ±0.1% of URL for 15 years
EJX510S: ±0.2% of URL for 15 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:

Rotation in diaphragm plane has no effect. Tilting up to 90 degrees will cause zero shift up to 0.21 kPa (0.84 inH_2O) which can be corrected by the zero adjustment.

Working Pressure:

For Standard type

- Working Pressure Limits (Silicone oil) Maximum Pressure Limits

	Pressure	
Capsule	**EJX510S**	**EJX530S**
A	200 kPa abs (29 psia)	200 kPa (29 psig)
B	2 MPa abs (290 psia)	2 MPa (290 psig)
C	10 MPa abs (1450 psia)	10 MPa (1450 psig)
D	70 MPa abs (10150 psia)	70 MPa (10150 psig)

- Minimum Pressure Limit: See graph below Figure 1-1 and 1-2

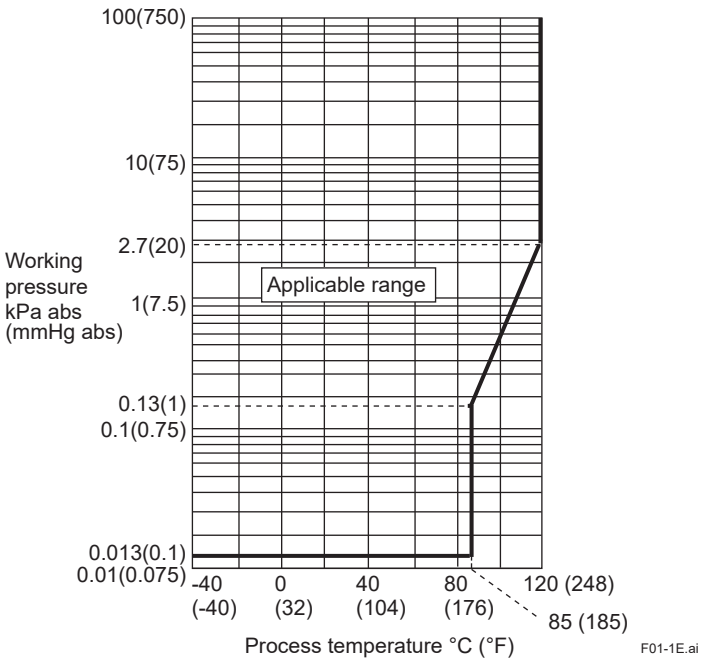


Figure 1-1. Working Pressure and Process Temperature [EJX510S]

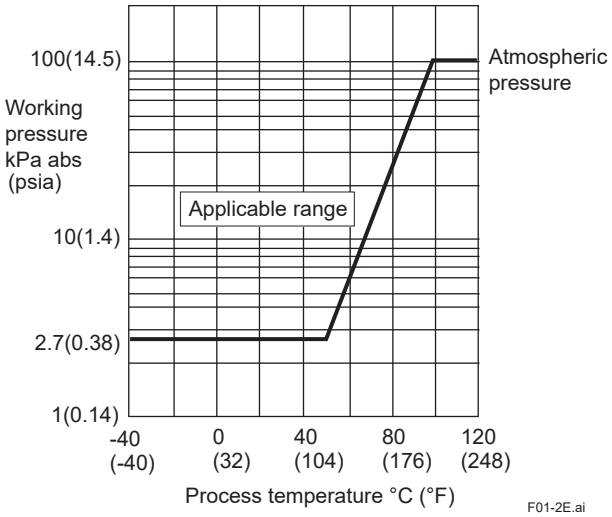


Figure 1-2. Working Pressure and Process Temperature [EJX530S]

□ 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/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)		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.

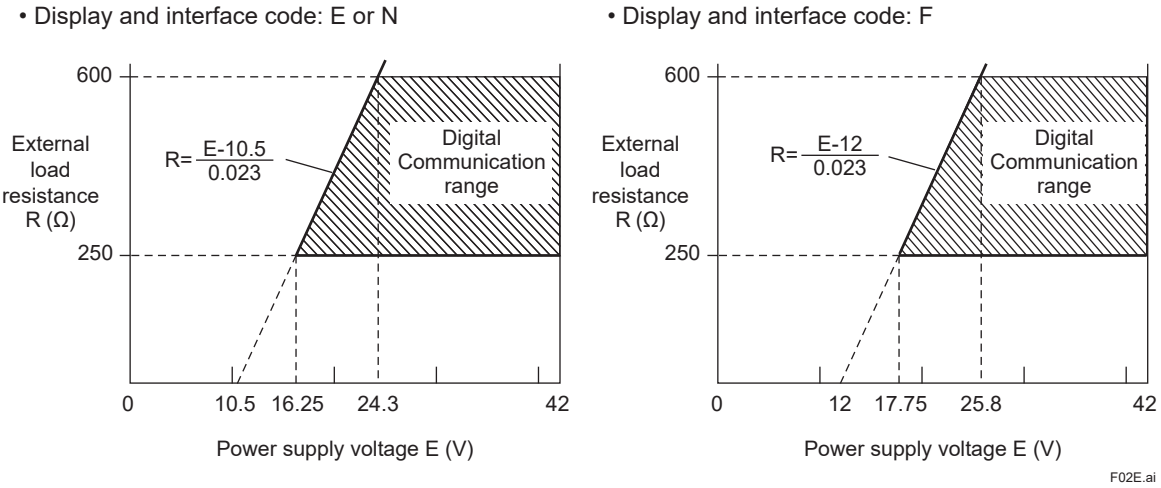


Figure 2. Relationship Between Power Supply Voltage and External Load Resistance

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) PROFIBUS PA Ver 4.0
Output signal		Digital communication signal based on PROTINET
Output mode		LINEAR/Signal Characterizer (Max 30-segment)
Communication Requirements	Supply Voltage	9 to 15 V DC for intrinsically safe type.
	Load	N/A
Response time (Typical)		150 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:
With option code /PE3 (for D capsule)
Category III, Module H, Type of Equipment: Pressure Accessory-Vessel, Type of Fluid: Liquid and Gas, Group of Fluid: 1 and 2
Sound Engineering Practice (for A, B and C capsules)

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 mark
- 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
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.”
- Housing: Low copper cast aluminum alloy
- Pipe: Polypropylene
- Name plate and tag: 316 SST
- Cover O-rings: Buna-N,
- Fill fluid: Silicone, Fluorinated oil (optional)

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:
Capsule A, B and C: 1.4 kg (3.1 lb)*
Capsule D: 1.6 kg (3.5 lb)*
*: Without integral indicator and mounting bracket.

■ MODEL AND SUFFIX CODES

● EJX510S and EJX530S

Model	SuffixCode	Description
EJX510S **EJX530S**		In-line Absolute Perssue Transmitter In-line Gauge Pressure Transmitter
Approval	**-CF1**(*13)	Canada explosion-proof(*1)(*2)
	-CS1	Canada intrinsically safe(*1)(*2)
	-CU1(*13)	Canada explosion-proof and intrinsically safe(*1)(*2)
	-CNN	Canada safety requirement(*1)(*2)
	-FF1(*13)	USA explosion-proof(*1)(*2)
	-FS1	USA intrinsically safe(*2)
	-FU1(*13)	USA explosion-proof and intrinsically safe(*1)(*2)
	-FNN	USA safety requirement(*1)(*2)
	-KF1(*13)	ATEX flameproof(*1)(*2)
	-KS1	ATEX intrinsically safe(*2)
	-KU1(*13)	ATEX flameproof and intrinsically safe(*1)(*2)
	-KNN	CE marking(*1)
	-SF1(*13)	IECEx flameproof approval(*1)(*2)
	-SS1	IECEx intrinsically safe(*2)
	-SU1(*13)	IECEx flameproof and intrinsically safe(*1)(*2)
	-VU1(*13)	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(*12)
	N	Without display
Capsule range	**-A**	200 kPa / 29 psi / 2 bar / 2 kgf/cm^2
	-B	2 MPa / 290 psi
	-C	10 MPa / 1450 psi
	-D	70 MPa / 10150 psi
Wetted Parts Material(*4)	**S**	Process connector: 316L SST equiv(*5)#, Diaphragm: Hastelloy C-276(*6)#, Others: 316L SST# or F316L SST#
	H	Process Connector: Hastelloy C-276 equiv#, Diaphragm: Hastelloy C-276(*6)#, Others: Hastelloy C-276(*6)#
	F	Process Connector: 316L SST equiv(*5)#, Diaphragm: Gold-plated/ Hastelloy C-276(*6)#, Others: 316L SST# or F316L SST#
Fill fluid	**S**	Silicone oil (EJX530S: Capsule range code: A, B, and C)
	D	Fluorinated oil(*7) Operating temperature −20 to 80°C (−4 to 176°F) (EJX530S)
	B	Silicone oil for high-pressure (EJX510S/530S: Capsule range code: D)
	H	Silicone oil for absolute (EJX510S: Capsule range code: A, B, and C)
	F	Fluorinated oil for absolute(*7) Operating temperature −20 to 80°C (−4 to 176°F) (EJX510S)

Model	SuffixCode	Description
Process Connection	**2**	Rc1/2 female
	4	1/2NPT female
	6	R1/2 male
	7	1/2NPT male
	8	G1/2 DIN 16 288 male(*8)
	9	M20 x 1.5 DIN 16 288 male(*8)
	A	G1/2 male(*9)
	W	Welding joint for diaphragm seal unit(*10)
—	**N**	Always N
—	**0**	Always 0
Mounting Bracket	**-L**	316 SST 2-inch pipe mounting
	-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: Intergranular corrosion test passed according to ASTM A262 Practice E.
*6: Hastelloy C-276 or Hastelloy C276 equivalent.
*7: 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).
*8: Not applicable when combining capsule range code D and wetted part material code H.
*9: Not applicable for wetted parts material code H.
*10: Applicable for capsule range code A and B; wetted parts material code S and F; fill fluid code S, D, H and F.
*11: For hygienic type refer to GS 01C33F20-01EN
*12: Not applicable for approval code -CS1, -CU1, -FS1, -FU1, -KS1, -KU1, -SS1, -SU1 and -VU1
*13: Applicable for EJX510S
The '#'marks indicate the construction materials conform to NACE material recommendations per MR0175/ISO 15156.
Please refer to the latest standards for details. Selected materials also conform to NACE MR0103.

■ 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(*8)		Reference accuracy: ±0.025% of Span	/HAC
Additional blind plug(*3)(*4)		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; Metaric 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(*5)	/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		Degrease cleansing treatment	/K01
		Degrease cleansing treatment with certificates	/K41
Oil-prohibited use with dehydrating treatment		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
	MWP unit Maximum Pressure Limits (MWP) unit(*17)	psi	/D1
		bar	/D3
		kgf/cm^2	/D4
High-humidity option(*7)		For high-humidity environments	/HE
Functional safety(*16)		Without functional safety SIL 2	/SLN

■ OPTIONAL SPECIFICATIONS / System

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.(*9)	/CF	○	○

■ OPTIONAL SPECIFICATIONS / Standards and Regulations

Item	Description	Code
European Pressure Equipment Directive(*10)	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 / Documents

Item		Description		Code
Material certificate		Process connector		**/M15**
		Process connector, diaphragm, capsule body		**/MA2**
Material certificate list(*4)(*15)		Material certificate list		**/YC**
Parameter list(*4)(*12)		List of setting and adjustment parameters		**/YP**
Pressure test/ Leak test certificate(*6)	A-Capsule	Test pressure: 200 kPa (800 inH_2O)	Nitrogen Gas(*13) or Water(*14) Retention time: one minute	**/T05**
	B-Capsule	Test pressure: 2 MPa (290 psi)		**/T06**
	C-Capsule	Test pressure: 10 MPa (1450 psi)		**/T07**
	D-Capsule	Test pressure: 70 MPa (10150 psi)		**/T15**
Pressure test/ Leak test certificate(*4)(*15)		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(*14) Test time: ten minutes	**/YT**
			Leakage test: Test Fluid: Nitrogen Gas(*13) or Water(*14) Test time: ten minutes	
Calibration certificate(*4)		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

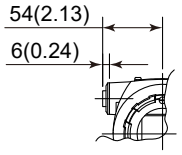
Item	Description	Code
Warranty	3-years warranty	**/WP3**
	5-years warranty	**/WP5**

*1: Applicable for approval code -KNN and -NNN.
*2: Applicable for electrical connection code 0, 5, A and F.
*3: Applicable for 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.
*4: Not applicable for process connection code W.
*5: Not applicable with color change option.
*6: The unit on the certificate is always Pa unit regardless of selection of option code /D1, /D3 or /D4.
*7: Not applicable with flameproof packing adapter option code /V11 and /V12.
*8: Refer to “PERFORMANCE SPECIFICATIONS.” Applicable for EJX530S. Not applicable for combinations of capsule range code A, and wetted parts material code H.
When the specified range values for A capsule include negative value, the accuracy shall be the standard accuracy, even if /HAC is specified.
*9: Not applicable for display and interface code N.
*10: Applicable for capsule range code D and process connection code 4, 6, 7, 8, 9 and A. If compliance with category III is needed, specify this option code.
*11: Applicable for material certificate option /M□□.
*12: Applicable for output signal code J.
*13: Dry nitrogen gas is used for oil-prohibited use (option codes /K01, /K05, /K41 and /K45).
*14: Pure water is used for oil-prohibited use (option codes /K01, /K05, /K41 and /K45).
*15: Applicable for pressure test/leak test certificate code /T□□.
*16: Required if output signal code T is selected.
*17: The MWP (maximum working pressure) unit indicated on the housing nameplate is displayed in the unit specified by option codes /D1, /D3 and /D4.

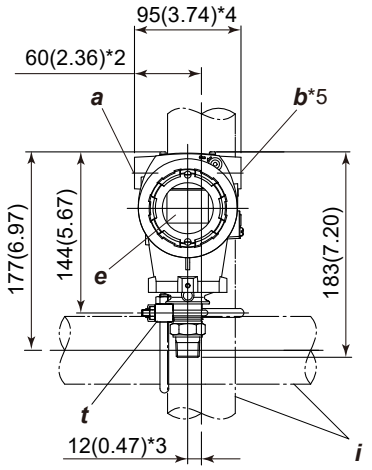
■ DIMENSIONS

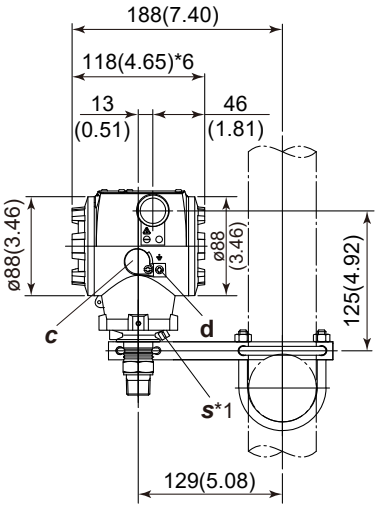
Unit: mm (approx.inch)

● Process connections code: 6, 7



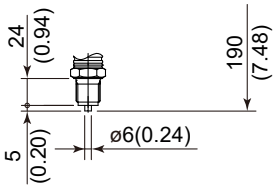
Electrical connection
for code 5, 9, A, and D.



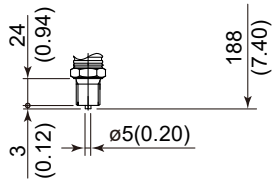


● Process connections code: 2, 4

● Process connections code: 8, 9



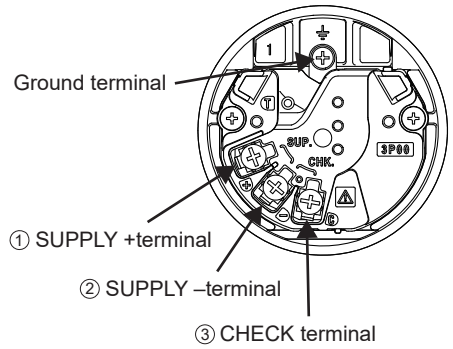
● Process connections code: A



a	External indicator Conduit connection (optional)	***d***	Ground terminal	***s***	Open to atmosphere
b	Conduit connection	***e***	Display (optional)	***t***	Mounting bracket
c	Zero adjustment	***i***	2-inch pipe (O.D. 60.5 mm)		

*1: Only to for EJX530S, Capsule range code: A, B and C.
*2: 58 mm (2.28 inch) for capsule range code: D.
*3: 11 mm (0.43 inch) for capsule range code: D.
*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 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>Description</th></tr>
<tr><td rowspan="2">Canadian Standards Association (CSA)</td><td>-CS1</td><td>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></td><td>-CU1</td><td>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>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>
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<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>

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<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>
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<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
   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	Default 2.00 seconds 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	[EJX530S] Selected from mmH_2O, $mmH_2O(68°F)$, mmAq(*2), mmWG(*2), mmHg, Pa, hPa, kPa, MPa, mbar, bar, 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) [EJX510S] Torr, Pa abs, hPa abs, kPa abs, MPa abs, mbar abs, bar abs, kgf/cm^2 abs, mmH_2O abs, mmH_2O abs(68°F), mmHg abs, inH_2O abs, inH_2O abs(68°F), inHg abs, ftH_2O abs, ftH_2O abs(68°F), psia, atm.
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.