General Specifications

EJA430A Gauge Pressure Transmitter **DP**harp

GS 01C21E01-00EN

The high performance gauge pressure transmitter model EJA430A can be used to measure liquid, gas, or steam pressure. It outputs a 4 to 20 mA DC signal corresponding to the measured gauge pressure.

Model EJA430A also features remote setup and monitoring through communications with the BRAINTM terminal and CENTUM CSTM or μ XLTM or HART[®] 275 host.

STANDARD SPECIFICATIONS

Refer to GS 01C22T02-00EN for FOUNDATION Fieldbus communication type and GS 01C22T03-00EN for PROFIBUS PA communication type marked with " \Diamond ."

PERFORMANCE SPECIFICATIONS

Zero-based calibrated span, linear output, wetted parts material code 'S' and silicone oil.

Reference Accuracy of Calibrated Span

(including the effects of zero-based linearity, hysteresis, and repeatability)

±0.065 % of Span

For spans below X,

where X equals:

Capsule	X MPa {psi}
A	0.3 {43}
В	1.4 {200}

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

±[0.084 % Span + 0.017 % URĹ]

Stability

±0.1 % of URL per 60 months

Power Supply Effects "◊" ±0.005 % per Volt (from 21.6 to 32 V DC, 350 Ω)

FUNCTIONAL SPECIFICATIONS

Span & Range Limits

Measurement Span/Range		MPa	psi (/D1)	bar (/D3)	kgf/cm ² (/D4)
_	Span	0.03 to 3	4.3 to 430	0.3 to 30	0.3 to 30
A	Range	-0.1 to 3	-15 to 430	-1 to 30	-1 to 30
в	Span	0.14 to 14	20 to 2000	1.4 to 140	1.4 to 140
	Range	-0 1 to 14	-15 to 2000	-1 to 140	-1 to 140

URL is defined as the Upper Range Limit from the table above.



Zero Adjustment Limits

Zero can be fully elevated or suppressed, within the Lower and Upper Range Limits of the capsule.

External Zero Adjustment "◊"

External zero is continuously adjustable with 0.01 % incremental resolution of span. Span may be adjusted locally using the digital indicator with range switch.

Mounting Position Effect

Rotation in diaphragm plane has no effect. Tilting up to 90° will cause zero shift up to 0.4 kPa {1.6 inH₂O} which can be corrected by the zero adjustment.

Output "◊"

Two wire 4 to 20 mA DC output with digital communications. BRAIN or HART FSK protocol are superimposed on

the 4 to 20 mA signal.

Failure Alarm

Output status at CPU failure and hardware error; Up-scale: 110%, 21.6 mA DC or more(standard) Down-scale:

-5%, 3.2 mA DC or less

-2.5%, 3.6 mA DC or less (Optional code /F1) Note: Applicable for Output signal code D and E

Damping Time Constant (1st order)

The sum of the amplifier and capsule damping time constant must be used for the overall time constant. Amp damping time constant is adjustable from 0.2 to 64 seconds.

Capsule (Silicone Oil)	А	В	
Time Constant (approx. sec)	0.2	0.2	



Ambient Temperature Limits

(approval codes may affect limits)

-40 to 85 °C (−40 to 185 °F) -30 to 80 °C (−22 to 176 °F) with LCD Display

Process Temperature Limits (approval codes may affect limits) -40 to 120 °C (-40 to 248 °F)

Ambient Humidity Limits

5 to 100 % RH @ 40 °C (104 °F)

Maximum Overpressure

Capsule	Pressure
A	4.5 MPa {645 psig}
В	21 MPa {3000 psig}

Working Pressure Limits (Silicone Oil) Maximum Pressure Limit

Capsule	Pressure	
A	3 MPa {430 psig}	
В	14 MPa {2000 psig}	

Minimum Pressure Limit

See Figure 1.

Supply & Load Requirements

(Safety approvals can affect electrical requirements) With 24 V DC supply, up to a 570 Ω load can be used. See Figure 2.

Supply Voltage "0"

10.5 to 42 V DC for general use and flameproof type 10.5 to 32 V DC for lightning protector (Optional code /A)

10.5 to 30 V DC for intrinsically safe, Type n,

nonincendive, or non-sparking type Minimum voltage limited at 16.4 V DC for digital communications, BRAIN and HART

Load (Output signal code D and E) 0 to 1335 Ω for operation

250 to 600 Ω for digital communication

EMC Conformity Standards "0"

EN61326-1 Class A, Table2 (For use in industrial locations) EN61326-2-3

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

Safety Requirement Standards

EN61010-1

Altitude of installation site: Max. 2,000 m above sea level

- Installation category: I
- Pollution degree: 2
- Indoor/Outdoor use

Communication Requirements "◊"

BRAIN

Communication Distance

Up to 2 km (1.25 miles) when using CEV polyethylene-insulated PVC-sheathed cables. Communication distance varies depending on type of cable used.

Load Capacitance

0.22 µF or less (see note)

Load Inductance 3.3 mH or less (see note)

Spacing from power line 15 cm or more.

Input Impedance of communicating device 10 k Ω or more at 2.4 kHz.

Note: For general-use and Flameproof type. For Intrinsically safe type, please refer to 'OPTIONAL SPECIFICATIONS.'

PHYSICAL SPECIFICATIONS

Wetted Parts Materials

Diaphragm, Cover flange, Process connector, and Vent/Drain Plug Refer to 'MODEL AND SUFFIX CODE.'

eler to MODEL AND SUFFIX (

Capsule Gasket For wetted parts material code S, Teflon-coated SUS316L. For wetted parts material code other than S, PTFE(Teflon).

Process Connector Gasket PTFE Teflon

Fluorinated rubber for Optional code /N2 and /N3

Non-wetted Parts Materials

Bolting SCM435, SUS630, or SUH660

Housing

Low copper cast-aluminum alloy with polyurethane paint (Munsell 0.6GY3.1/2.0)

Degrees of Protection IP67, Type 4X

Cover O-rings Buna-N, fluoro-rubber (optional)

Name plate and tag

SUS304 or SUS316 (option)

Fill Fluid

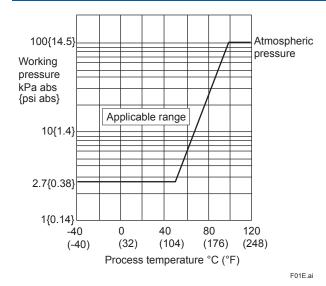
Silicone, Fluorinated oil (option)

Weight

3.9 kg (8.6 lb) without integral indicator, mounting bracket, and process connector.

Connections

Refer to the model code to specify the process and electrical connection type. Process Connection of Cover Flange: DIN 19213 with 7/16 inch × 20 unf female thread.





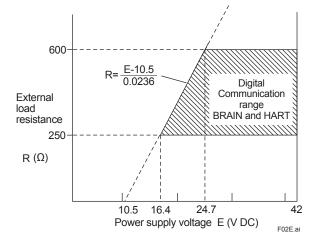


Figure 2. Relationship Between Power Supply Voltage and External Load Resistance

< Settings When Shipped > "0"

Tag Number	As specified in order *1
Output Mode	'Linear'
Display Mode	'Linear'
Operation Mode	'Normal' unless otherwise specified in order
Damping Time Constant	'2 sec.'
Calibration Range Lower Range Value	As specified in order
Calibration Range Higher Range Value	As specified in order
Calibration Range Units	Selected from mmH ₂ O, mmAq, mmWG, mmHg, Pa, hPa, kPa, MPa, mbar, bar, gf/cm ² , kgf/cm ² , inH ₂ O, inHg, ftH ₂ O, or psi. (Only one unit can be specified)

*1: Up to 16 alphanumeric characters for BRAIN and 8 characters for HART including '-' and '.' will be entered in the amplifier memory. If specified Tag includes other characters than above, it will not be entered in the amplifier memory.

■ MODEL AND SUFFIX CODES

Model	S	uffix Code	s	Description				
EJA430A				Gauge pressure transmitter				
Output Signal -	-D -E -F			4 to 20 mA DC with digital communication (BRAIN protocol) 4 to 20 mA DC with digital communication (HART protocol, refer to GS 01C22T01-00EN) Digital communication (FOUNDATION Fieldbus protocol, refer to GS 01C22T02-00EN) Digital communication (PROFIBUS PA protocol, refer to GS 01C22T03-00EN)				
Measurement span (capsule)	_			0.03 to 3 MPa {0.3 to 30 kgf/cm ² } {4.3 to 430 psi} {0.3 to 30 bar} 0.14 to 14 MPa {1.4 to 140 kgf/cm ² } {20 to 2000 psi} {1.4 to 140 bar}				
Wetted parts material ^{*9}	H# M# T. A# D.		· · · · · · · · · · · · · · · · · · ·	[Body] *1 [Capsule] [Vent plug] SCS14A SUS316L *2 SUS316 *11 SCS14A Hastelloy C-276 *3*10 SUS316 *11 SCS14A Monel*3 SUS316 *11 SCS14A Tantalum *3 SUS316 *11 SCS14A Tantalum *3 SUS316 *11 Hastelloy C-276 equivalent*4 Hastelloy C-276 *3*10 Hastelloy C-276*10 Hastelloy C-276 equivalent*4 Tantalum *3 Hastelloy C-276*10 Monel equivalent*5 Monel*3 Monel				
Process connecti	1 2 3 3 4) 2 3 4 5		without process connector (Rc1/4 female on the cover flanges) with Rc1/4 female process connector with Rc1/2 female process connector with 1/2 NPT female process connector with 1/2 NPT female process connector with up rocess connector (1/4 NPT female on the cover flanges)				
Bolts and nuts ma	aterial	A B C		[Maximum working pressure] (A capsule) (B capsule) SCM435 3 MPa {30 kgf/cm²} 14 MPa {140 kgf/cm²} SUS630 3 MPa {30 kgf/cm²} 14 MPa {140 kgf/cm²} SUH660 3 MPa {30 kgf/cm²} 14 MPa {140 kgf/cm²}				
Installation		-3 -6 -7 -8		Vertical impulse piping type, right side high pressure, process connector upside ^{*6} Vertical impulse piping type, right side high pressure, process connector downside ^{*6} Vertical impulse piping type, left side high pressure, process connector upside ^{*6} Vertical impulse piping type, left side high pressure, process connector downside ^{*6} Horizontal impulse piping type, right side high pressure ^{*7} Horizontal impulse piping type, left side high pressure ^{*7}				
Electrical connec	ction	► 0 2 3 4 5 7 8 9 A C		G1/2 female, one electrical connection 1/2 NPT female, two electrical connections without blind plug M20 female, two electrical connections without blind plug G1/2 female, two electrical connections and a blind plug 1/2 NPT female, two electrical connections and a blind plug 1/2 NPT female, two electrical connections and a blind plug M20 female, two electrical connections and a blind plug G1/2 female, two electrical connections and a blind plug M20 female, two electrical connections and a blind plug M20 female, two electrical connections and a SUS316 blind plug M20 female, two electrical connections and a SUS316 blind plug M20 female, two electrical connections and a SUS316 blind plug				
Integral indicator		E)	Digital indicator Digital indicator with the range setting switch ^{*8} (None)				
Mounting bracket	t	•	A B J	SECC Carbon steel2-inch pipe mounting (flat type)SUS3042-inch pipe mounting (flat type)SUS3162-inch pipe mounting (flat type)				
			C D K N	SECC Carbon steel2-inch pipe mounting (L type)SUS304 or SCS13A2-inch pipe mounting (L type)SUS316 or SCS14A2-inch pipe mounting (L type)(None)				

The "▶" marks indicate the most typical selection for each specification. Example: EJA430A-DAS5A-92NA/□

The '#' marks indicate the construction materials conform to NACE material recommendations per MR01-75. For the use of SUS316 material, there may be certain limitations for pressure and temperature. Please refer to NACE standards for details.

*1: Indicates high pressure side cover flange and process connector material. Material of low pressure side cover flange (open to atmosphere) is SCS14A.

*2: Diaphragm material is Hastelloy C-276 or ASTM N10276. Other capsule wetted parts materials are SUSF316L, SUS316L or ASTM grade 316L.

Indicates diaphragm and other capsule wetted parts material. Indicated material is equivalent to ASTM CW-12MW. *3:

*4: *5: Indicated material is equivalent to ASTM M35-2.

*6: If necessary, specify Mounting bracket code C, D or K.

- *7: If necessary, specify Mounting bracket code A, B or J.
 *8: Not applicable for Output signal code F and G.
 *9: ▲ 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. Hastelloy C-276 or ASTM N10276. SUS316 or ASTM grade 316.
- *10:
- *11:

■ OPTIONAL SPECIFICATIONS (For Explosion Protected type "◊")

For FOUNDATION Fieldbus explosion protected type, see GS 01C22T02-00EN. For PROFIBUS PA explosion protected type, see GS 01C22T03-00EN.

Item	Description	Code
Factory Mutual (FM)	FM Explosionproof Approval *1 *3 *4 Applicable standard: FM3600, FM3615, FM3810, ANSI/NEMA250 Explosionproof for Class I, Division 1, Groups B, C and D Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G Hazardous (classified) locations, indoors and outdoors (NEMA 4X) Temperature class: T6 Amb. Temp.: -40 to 60°C (-40 to 140°F)	FF1
	 FM Intrinsically safe Approval *1 *3 *4 Applicable standard: FM3600, FM3610, FM3611, FM3810, ANSI/NEMA250 Intrinsically Safe for Class I, Division 1, Groups A, B, C & D, Class II, Division 1, Groups E, F & G and Class III, Division 1 Hazardous Locations. Nonincendive for Class I, Division 2, Groups A, B, C & D, Class II, Division. 2, Groups E, F & G, and Class III, Division 1 Hazardous Locations. Enclosure: "NEMA 4X", Temp. Class: T4, Amb. Temp.: -40 to 60°C (-40 to 140°F) Intrinsically Safe Apparatus Parameters [Groups A, B, C, D, E, F and G] Vmax=30 V, Imax=165 mA, Pmax=0.9 W, Ci=22.5 nF, Li=730 μH [Groups C, D, E, F and G] Vmax=30 V, Imax=225 mA, Pmax=0.9 W, Ci=22.5 nF, Li=730 μH 	FS1
	Combined FF1 and FS1 *1 *3 *4	FU1
Canadian Standards Association (CSA)	CSA Explosionproof Approval ^{*1 *3 *4} Applicable standard: C22.2 No. 0, No. 0.4, No. 25, No. 30, No. 94, No. 142 Certificate: 1089598 Explosionproof for Class I, Division 1, Groups B, C and D Dustignitionproof for Class II/III, Division 1, Groups E, F and G Division2 'SEALS NOT REQUIRED', Temp. Class: T4, T5, T6 Encl Type 4x Max. Process Temp.: T4; 120°C (248°F), T5; 100°C (212°F), T6; 85°C (185°F) Amb. Temp.: –40 to 80°C (–40 to 176°F) Process Sealing Certification Dual Seal Certified by CSA to the requirement of ANSI/ISA 12.27.01 No additional sealing required. Primary seal failure annunciation: at the zero adjustment screw	CF1
	CSA Intrinsically safe Approval *1 *3 *4 Applicable standard: C22.2 No. 0, No. 0.4, No. 25, No. 30, No. 94, No. 142, No. 157, No. 213 Certificate: 1053843 Class I, Groups A, B, C and D Class II and III, Groups E, F and G Encl Type 4x, Temp. Class: T4, Amb. Temp.: -40 to 60°C (-40 to 140°F) Vmax=30 V, Imax=165 mA, Pmax=0.9 W, Ci=22.5 nF, Li=730 µH Process Sealing Certification Dual Seal Certified by CSA to the requirement of ANSI/ISA 12.27.01 No additional sealing required. Primary seal failure annunciation: at the zero adjustment screw	CS1
	Combined CF1 and CS1 *1 *3 *4	CU1

Item	Description	Code
IECEx	IECEx Intrinsically safe, type n and Flameproof Approval *3 *4 *5 Intrinsically safe and type n Applicable Standard: IEC 60079-0:2004, IEC 60079-11:1999, IEC 60079-15:2005, IEC 60079-26:2005 Certificate: IECEx KEM 06.0007X Ex ia IIC T4, Ex nL IIC T4 Enclosure: IP67 Amb. Temp.: -40 to 60°C (-40 to 140°F), Max. Process Temp.: 120°C (248°F) Electrical Parameters: [Ex ia] Ui=30 V, Ii=165 mA, Pi=0.9 W, Ci=22.5 nF, Li=730 μH [Ex nL] Ui=30 V, Ci=22.5 nF, Li=730 μH Flameproof Applicable Standard: IEC 60079-0:2004, IEC60079-1:2003 Certificate: IECEx KEM 06.0005 Ex d IIC T6T4 Enclosure: IP67 Max.Process Temp.: T4;120°C (248°F), T5;100°C (212°F), T6; 85°C (185°F) Amb.Temp.: -40 to 75°C (-40 to 167°F) for T4, -40 to 80°C (-40 to 176°F) for T5, -40 to 75°C (-40 to 167°F) for T6	SU2

*1: *2: *3:

Applicable for Electrical connection code 2, 7 and C (1/2 NPT female). (Not used) Applicable for Output signal code D and E. For intrinsically safe approval, use the safety barrier certified by the testing laboratories (BARD-400 is not applicable). Lower limit of ambient temperature is –15°C (5°F) when /HE is specified. Applicable for Electrical connection code 2, 4, 7, C and D (1/2 NPT and M20 female).

- *4: *5:

OPTIONAL SPECIFICATIONS

Item		Description				
Painting ^{*10} Color change		Amplifier cover only				
		Amplifier cover and terminal cov	/er, Munsell 7	.5 R4/14		PR
	Coating change	Epoxy resin-baked coating *11				X1
316 SST exte	erior parts	Exterior parts on the amplifier he stopper screw) will become 316		plates, tag plate, z	zero-adjustment screw,	НС
Fluoro-rubbe	r O-ring	All O-rings of amplifier housing.	Lower limit of	f ambient temperat	:ure: −15°C (5°F)	HE
Lightning pro	tector	Transmitter power supply voltag 9 to 32 V DC for Fieldbus comm Allowable current: Max. 6000 A	unication typ	e.)		A
Oil-prohibited	l use *6	Degrease cleansing treatment				K1
		Degrease cleansing treatment v Operating temperature −20 to 8		d oilfilled capsule.		K2
Oil-prohibited	l use with	Degrease cleansing and dehyd	rating treatme	ent		K5
dehydrating t	reatment *6	Degrease cleansing and dehydronic dependencies of the Degrease cleansing and dehydronic dependencies of the Degrease of the Degrease of the Degrease of the Degrease of the Degree of th	rating treatme 0°C	ent with fluorinated	oilfilled capsule.	K6
Calibration u	nits *1	P calibration (psi unit)				D1
		bar calibration (bar unit)		(See Table for Sp	an and Range Limits.)	D3
		M calibration (kgf/cm ² unit)				D4
Sealing treat nuts	ment to SUS630	Sealant (liquid silicone rubber) is coated on JIS SUS630 cover flange mounting nuts against stress corrosion cracking.				
Long vent *2		Total length: 119 mm (standard: 34 mm); Total length when combining with Optional code K1, K2, K5, and K6: 130 mm. Material: SUS316 or ASTM grade 316.				U
Fast response *7		Update time: 0.125 sec Amplifier damping time constant: 0.1 to 64 sec in 9 increments Response time (with min. damping time constant): max. 0.3 sec				F1
Failure alarm	down-scale *3	Output status at CPU failure and	-			C1
NAMUR NE4	13 compliant *3 *9	Output signal limits:	Failure alarm down-scale: output status at CPU failure and hardware error is -5% , 3.2 mA or less.			C2
		3.8 mA to 20.5 mA	Failure alarm up-scale: output status at CPU failure and hardware error is 110%, 21.6 mA or more.			C3
Data configu	ration at factory*12	Description into "Descriptor" parameter of HART protocol				CA
Stainless ste nousing *4	el amplifier	Amplifier housing material: SCS (equivalent to SUS316 cast stai				E1
Gold-plate *5		Surface of isolating diaphragms are gold plated, effective for hydrogen permeation. (The diaphragm for atmospheric side is not gold-plated)				
Sody option ' Terminal		Right side high pressure, without drain and vent plugs				N1
side Fo3E.ai		N1 and Process connection, based on DIN 19213 with 7/16 inch×20 unf female thread, on both sides of cover flange with blind kidney flanges on back				N2
		N1, N2, and Mill certificate for cover flange, diaphragm, capsule body, and blind kidney flange				N3
Nired tag plate Stainless steel tag plate wired onto transmitter				N4		
Configuration		Custom software configuration				R1
Aill Certificat	e	Cover flange *14				M01
		Cover flange, Process connecto	or *15			M11
Pressure tes	ŀ	Test Pressure: 3 MPa{30 kgf/cm			Nitrogen(N2) Gas *19	T03
Leak test Ce	rtificate *16	Test Pressure: 14 MPa{140 kgf/	cm ² } *18		Retention time: 10 minutes	T02

*1: The unit of MWP (Max. working pressure) on the name plate of a housing is the same unit as specified by Option code D1, D3 and D4.

Applicable for vertical impulse piping type (Installation code 2, 3, 6, or 7) and Wetted parts material code S, H, M, and T. Applicable for Output signal code D and E. The hardware error indicates faulty amplifier or capsule. When combining with Option code F1, output status for down-scale is –2.5%, 3.6 mA DC or less. *2: *3:

*4: Applicable for Electrical connection code 2, 3, 4, A, C and D. Not applicable for Option code P□ and X1.

*5: Applicable for Wetted parts material code S.

*6:

*7:

Applicable for Wetted parts material code S, H, M, and T. Applicable for Output signal code D and E. Write protection switch is attached for Output code E. Applicable for Wetted parts material code S, H, T, and M; Process connection code 3, 4, and 5; Installation code 9; and *8:

Mounting bracket code N. Process connection faces on the other side of zero adjustment screw.

*9: Not applicable for Option code C1.

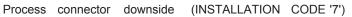
- Standard polyurethan painting can be used in acid atmosphere, whereas the epoxy resin-baked coating (Option code X1) can be used in alkaline atmosphere. Anti-corrosion coating, the combination of polyurethan and epoxy resin-baked coating, *10: is available by special order as sea water, alkaline, and acid resistant.
- *11: *12: Not applicable for color change option.
- Applicable for Output signal code E. 316 or 316L SST. The specification is included in option code /E1. Applicable for Process connection code 0 and 5. *13: *14:
- *15: Applicable for Process onnection code 1, 2, 3, and 4.
- *16: *17: The unit on the certificate is always MPa regardless of selection of option code D1, D3, or D4.
- Applicable for Capsule code A.
- *18: *19: Applicable for Capsule code B.
- Pure nitrogen gas is used for oil-prohibited use (Optional code K1, K2, K5, and K6).

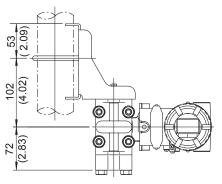
DIMENSIONS

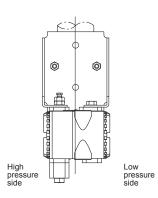
Model EJA430A

Unit: mm (approx. inch) Vertical Impulse Piping Type Process connector upside (INSTALLATION CODE '6') (For CODE '2' or '3,' refer to the notes below.) 259(10.20) External indicator

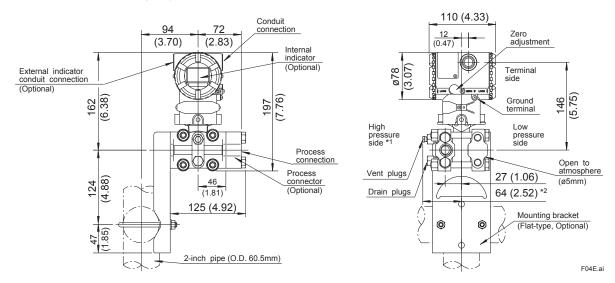
197 (7.76) conduit connection 110 (4.33) (Optional) 146 (5.75) 97 High pressure side *1 Low 27 pressure side (3.82) Process connections (1.06) Process connector (Optional) 83) 72 Internal indicator ې * ∯ ∞ Ø 0 <u>N</u> (3.07) (Optional) ø78 40 83 ŝ 234(9.21) 0 0 Termina 102 (4.02) side ų Conduit connection Ground Zero adjustment terminal Mounting bracket (L-type, Optional) Shrouding bolt *3 ٥ Open to ٢ 53 2.09) atmosphere (ø9mm) Vent/Drain $\frac{12}{(0.47)}$ plugs K:XX 2-inch pipe (O.D. 60.5mm)







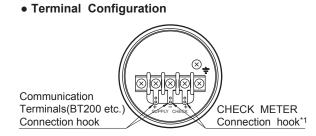
Horizontal Impulse Piping Type (INSTALLATION CODE '9') (For CODE '8', refer to the notes below.)



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

*2: *3: When Optional code K1, K2, K5, or K6 is selected, add 15 mm(0.59 inch) to the value in the figure.

Applicable only for ATEX and IECEx Flameproof type.



• Terminal Wiring

SUPPLY +	Power supply and output terminal
CHECK +	External indicator (ammeter) terminal*1
÷	Ground terminal

When using an external indicator or a check meter, *1: the internal resistance must be 10Ω or less. Not available for Fieldbus communication (Output signal code F and G).

F05E.ai

	[Model		Moasuron	nent Span	Maximum Working Pressure		
Application	Туре		Capsule	kPa	inH2O	MPa	psi	
			L	0.5 to 10	2 to 40	16 ^{*4}	2250 ^{*4}	
	Traditional-		M	1 to 100	4 to 400	16	2250	
Differential Pressure	Mounting ^{*1}	EJA110A	H	5 to 500	20 to 2000	16	2250	
	j ő		V	0.14 to 14 MPa	20 to 2000 psi	16	2250	
			L	1 to 10	4 to 40	3.5	500	
Flow	Integral Orifice	EJA115	M	2 to 100	8 to 400	14	2000	
			Н	20 to 210	80 to 830	14	2000	
Differential Pressure	Extended Flush	EJA118N EJA118W	м	2.5 to 100	10 to 400	Deced on Fl	ango Doting	
& Liquid Level with Remote Seals	Combination	EJA118V	Н	25 to 500	100 to 2000	Based on Flange Rating		
Draft Range	Traditional- Mounting ^{*1}	EJA120A	E	0.1 to 1	0.4 to 4	50 kPa	7.25	
Differential Pressure	Traditional-	EJA130A	M	1 to 100	4 to 400	32	4500	
& Liquid Level	Mounting ^{*1}	LOATOOA	Н	5 to 500	20 to 2000	32	4500	
Liquid Level, Closed	Flush Extended	EJA210A EJA220A	M	1 to 100	4 to 400	Based on Flange Rating		
or Open Tank			Н	5 to 500	20 to 2000			
Absolute (vacuum)	Traditional-		L	0.67 to 10 ^{*2}	2.67 to 40*2	10 kPa*2	40 in H2O*2	
Pressure	Mounting ^{*1}	EJA310A	M	1.3 to 130*2	0.38 to 38 inHg ^{*2}	130 kPa*2	18.65 ^{*2}	
			A	0.03 to 3 MPa*2	4.3 to 430 psi*2	3000 kPa ^{*2}	430 ^{*2}	
Gauge Pressure	Traditional-	EJA430A	A	0.03 to 3 MPa	4.3 to 430 psi	3	430	
	Mounting ^{*1}	20/ (100/ (В	0.14 to 14 MPa	20 to 2000 psi	14	2000	
Gauge Pressure with	Extended	EJA438N	A	0.06 to 3 MPa	8.6 to 430 psi	Based on Fl	ange Rating	
Remote Seal	Exterioco		В	0.46 to 7 MPa	66 to 1000 psi	Based offici	angertating	
Gauge Pressure with	Flush	EJA438W	A	0.06 to 3 MPa	8.6 to 430 psi	Based on Fl	ange Rating	
Remote Seal	1 10311	20/40000	В	0.46 to 14 MPa	66 to 2000 psi	Based on Flange Rating		
High Gauge	Traditional-	EJA440A	С	5 to 32 MPa	720 to 4500 psi	32	4500	
Tiigii Oauge	Mounting ^{*1}	LJA440A	D	5 to 50 MPa	720 to 7200 psi	50	7200	
			A	10 to 200	1.45 to 29 psi	200 kPa	29	
Absolute & Gauge	Direct-Mounting	EJA510A	В	0.1 to 2 MPa	14.5 to 290 psi	2	290	
Pressure*3		EJA530A	C	0.5 to 10 MPa	72.5 to 1450 psi	10	1450	
			D	5 to 50 MPa	720 to 7200 psi	50	7200	

■ SELECTION GUIDE

Traditional-mounting is 1/4 - 18 NPTF process connections (1/2 - 14 NPTF with process adapters) on 2-1/8" centers.

Measurement values in absolute.

Measurement values in absolute for EJA510A.

*1: *2: *3: *4: When combined with Wetted parts material code H, M, T, A, D, and B, the value is 3.5 MPa (500 psi).

< Ordering Information > "0"

Specify the following when ordering

- 1. Model, suffix codes, and optional codes
- 2. Calibration range and units:
 - 1) Calibration range can be specified with range value specifications up to 5 digits (excluding any decimal point) for low or high range limits within the range of -32000 to 32000.
 - 2) Specify only one unit from the table, 'Settings when shipped.'
- 3. Select linear or square root for output mode and display mode.
 - Note: If not specified, the instrument is shipped set for linear mode.
- 4. Select normal or reverse for operation mode Note: If not specified, the instrument is shipped in normal operation mode.
- 5. Display scale and units (for transmitters equipped with integral indicator only) Specify either 0 to 100 % or engineering unit scale and 'Range and Unit' for engineering units scale: Scale range can be specified with range limit specifications up to 5 digits (excluding any decimal point) for low or high range limits within the range of -19999 to 19999.
- 6. Tag Number (if required)

< Related Instruments > "0"

Power Distributor: Refer to GS 01B04T01-02E or GS 01B04T02-02E BRAIN TERMINAL: Refer to GS 01C00A11-00E

< Reference >

- 1. Teflon; Trademark of E.I. DuPont de Nemours & Co.
- Hastelloy; Trademark of Haynes International Inc. 2.
- 3. Monel; Trademark of Inco Alloys International, Inc.
- 4. HART; Trademark of the HART Communication Foundation.
- 5. FOUNDATION; Trademark of Fieldbus Foundation.
- 6. PROFIBUS; Registered trademark of Profibus Nutzerorganisation e.v., Karlsruhe, Germany.

Material Cross Reference Table	
SUS316L	AISI 316L
SUS316	AISI 316
SUS304	AISI 304
S25C	AISI 1025
SCM435	AISI 4137
SUS630	ASTM630
SCS14A	ASTM CF-8M

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

< Specification Conformance >

The model EJA430A maintains a specification conformance to at least 3o .

CE marking is not applied to the product from the end of February 2016.