

■ MODEL AND SUFFIX CODES

Model	Suffix Codes	Description
EJA430E	Gauge pressure transmitter
Output signal	-D -J -F -G -Q	4 to 20 mA DC with digital communication (BRAIN protocol) 4 to 20 mA DC with digital communication (HART 5/HART 7 protocol)*1 Digital communication (FOUNDATION Fieldbus protocol, refer to GS 01C31T02-01EN) Digital communication (PROFIBUS PA protocol, refer to GS 01C31T04-01EN) Low Power, 1 to 5 V DC with digital communication (HART 7 protocol)
Measurement span (capsule)	H A B	5 to 500 kPa (20 to 2000 inH ₂ O) 0.03 to 3.5 MPa (4.3 to 500 psi) 0.14 to 16 MPa (20 to 2300 psi)
Wetted parts material *2	<input type="checkbox"/>	Refer to "Wetted Parts Material" Table.
Process connections See the table in the next page for the codes for a diaphragm seal system.	0 1 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 1/4 NPT female process connector with 1/2 NPT female process connector without process connector (1/4 NPT female on the cover flanges)
Bolts and nuts materia	J G C	B7 carbon steel 316L SST 660 SST
Installation	-3 -7 -8 -9 -B -U	Vertical piping, right side high pressure, and process connection down side Vertical piping, left side high pressure, and process connection down side Horizontal piping and right side high pressure Horizontal piping and left side high pressure Bottom Process Connection, left side high pressure*3 Universal flange*3
Amplifier housing	1 3 2	Cast aluminum alloy Cast aluminum alloy with corrosion resistance properties *4 ASTM CF-8M stainless steel *5
Electrical connection	0 2 4 5 7 9 A C D	G1/2 female, one electrical connection without blind plugs 1/2 NPT female, two electrical connections without blind plugs M20 female, two electrical connections without blind plugs G1/2 female, two electrical connections and a blind plug *6 1/2 NPT female, two electrical connections and a blind plug *6 M20 female, two electrical connections and a blind plug *6 G1/2 female, two electrical connections and a 316 SST blind plug 1/2 NPT female, two electrical connections and a 316 SST blind plug M20 female, two electrical connections and a 316 SST blind plug
Integral indicator	D E N	Digital indicator *7 Digital indicator with the range setting switch (push button) *8 (None)
Mounting bracket	B D J K M N	304 SST 2-inch pipe mounting, flat type (for horizontal piping) 304 SST or SCS13A 2-inch pipe mounting, L type (for vertical piping) 316 SST 2-inch pipe mounting, flat type (for horizontal piping) 316 SST or SCS14A 2-inch pipe mounting, L type (for vertical piping) 316 SST or SCS14A 2-inch pipe mounting (for bottom process connection type) (None)
Optional Codes	<input type="checkbox"/>	<input type="checkbox"/> Optional specification

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

*1: HART 5 or HART 7 is selectable. Specify upon ordering.

*2: ⚠ 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.

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

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

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

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

*7: Not applicable for output signal code G.

*8: Not applicable for output signal code F.

Table. Wetted Parts Materials

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

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

*2: Hastelloy C-276 or ASTM N10276.

*3: Indicated material is equivalent to ASTM CW-12MW.

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

*5: Indicated material is equivalent to ASTM A995 Grade5A.

*6: ASTM S32750 or EN 10272 1.4410.

*7: Cast version of 316L SST. Equivalent to SCS16A.

The '# marks indicate the construction materials conform to NACE material recommendations per MR0175/ISO 15156.

Please refer to the latest standards for details. Selected materials also conform to NACE MR0103.

[Process Connections Code for Diaphragm Seal System]

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

Process Connections Code	High Pressure Side	Low Pressure Side
B	With C80F□, C82F□ or C70S□ diaphragm seal	Open to atmosphere
G	With C80F□ or C82F□ diaphragm seal for high vacuum use	Open to atmosphere

80F□, C82F□, and C70S□ stands for C80FW or C80FE remote mount flanged diaphragm seal, C82FA inner diaphragm adapter connection seal, C82FD inner diaphragm flanged seal, and C70SW or C70SE remote mount hygienic diaphragm seal respectively.

■ OPTIONAL SPECIFICATIONS (For Explosion Protected type) “◇”

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

Item	Description	Code
Factory Mutual (FM)	<p>FM Explosionproof Approval *1 Applicable Standard: FM3600, FM3615, FM3810, NEMA 250, ANSI/UL 61010-1, ANSI/UL 61010-2-30 Explosionproof for Class I, Division 1, Groups B, C and D, Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G, in Hazardous locations, indoors and outdoors (Enclosure: Type 4X) “FACTORY SEALED, CONDUIT SEAL NOT REQUIRED.” Temperature class: T6, Amb. Temp.: -40 to 60°C (-40 to 140°F)</p>	FF1
	<p>FM Intrinsically safe Approval *1*3 Applicable Standard: FM 3600, FM 3610, FM 3611, FM 3810, ANSI/ISA-60079-0, ANSI/ISA-60079-11, ANSI/ISA-61010-1, NEMA 250 Intrinsically Safe for Class I, Division 1, Groups A, B, C & D, Class II, Division 1, Groups E, F & G and Class III, Division 1, Class I, Zone 0, in Hazardous Locations, AEx ia IIC Nonincendive for Class I, Division 2, Groups A, B, C & D, Class II, Division. 2, Groups F & G, Class I, Zone 2, Group IIC, in Hazardous Locations Enclosure: Type 4X, Temp. Class: T4, Amb. Temp.: -60 to 60°C (-75 to 140°F) Intrinsically Safe Apparatus Parameters [Groups A, B, C, D, E, F and G] Vmax=30 V, Imax=200 mA, Pmax=1 W, Ci=6 nF, Li=0 μH [Groups C, D, E, F and G] Vmax=30 V, Imax=225 mA, Pmax=1 W, Ci=6 nF, Li=0 μH</p>	FS1
	Combined FF1 and FS1 *1*3	FU1
ATEX	<p>ATEX Flameproof Approval *1 Applicable Standard: EN IEC 60079-0, EN 60079-1, EN 60079-31 Certificate: KEMA 07ATEX0109 X II 2G, 2D Ex db IIC T6...T4 Gb, Ex tb IIIC T85°C Db Degree of protection: IP66/IP67 Amb. Temp. (Tamb) for gas-proof : T4; -50 to 75°C (-58 to 167°F), T5; -50 to 80°C (-58 to 176°F), T6; -50 to 75°C (-58 to 167°F) Process Temp. for gas-proof (Tp): T4; -50 to 120°C (-58 to 248°F), T5; -50 to 100°C (-58 to 212°F), T6; -50 to 85°C (-58 to 185°F) Max. surface Temp. for dust-proof: T85°C (Tamb: -30 to 75°C, Tp: -30 to 85°C) *2</p>	KF22
	<p>ATEX Intrinsically safe Approval *1*3 Applicable Standard: EN 60079-0, EN 60079-11 Certificate: DEKRA 11ATEX0228 X II 1G, 2D Ex ia IIC T4 Ga, Ex ia IIIC T85°C T100°C T120°C Db Degree of protection: IP66/IP67 Amb. Temp. (Tamb) for EPL Ga: -50 to 60°C (-58 to 140°F) Maximum Process Temp. (Tp) for EPL Ga: 120°C Electrical data: Ui=30 V, Ii=200 mA, Pi=0.9 W, Ci=27.6 nF, Li=0 μH Amb. Temp. for EPL Db: -30 to 60°C *2 Max. surface Temp. for EPL Db: T85°C (Tp: 80°C), T100°C (Tp: 100°C), T120°C (Tp: 120°C)</p>	KS21
	<p>Combined KF22, KS21 and ATEX Intrinsically safe Ex ic *1*3 [ATEX Intrinsically safe Ex ic] Applicable Standard: EN 60079-0, EN 60079-11 II 3G Ex ic IIC T4 Gc, Amb. Temp.: -30 to 60°C (-22 to 140°F) *2 Ui=30 V, Ci=27.6 nF, Li=0 μH</p>	KU22

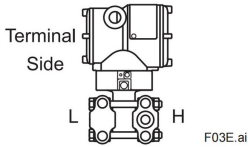
Canadian Standards Association (CSA)	<p>CSA Explosionproof Approval *1 Certificate: 2014354 Applicable Standard: C22.2 No. 25, C22.2 No. 30, CAN/CSA-C22.2 No. 94, CAN/CSA-C22.2 No. 61010-1, CAN/CSA-C22.2 No. 61010-2-030, CAN/CSA-C22.2 No. 60079-0, CAN/CSA-C22.2 No. 60079-1, CAN/CSA-C22.2 No. 60529 Explosion-proof for Class I, Groups B, C and D. Dustignition-proof for Class II/III, Groups E, F and G. When installed in Division 2, "SEAL NOT REQUIRED" Enclosure: Type 4X, Temp. Code: T6...T4 Ex d IIC T6...T4 Enclosure: IP66/IP67 Max.Process Temp.: T4;120°C(248°F), T5;100°C(212°F), T6; 85°C(185°F) Amb.Temp.: -50 to 75°C(-58 to 167°F) for T4, -50 to 80°C(-58 to 176°F) for T5, -50 to 75°C(-58 to 167°F) for T6 *2 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</p>	CF1
	<p>CSA Intrinsically safe Approval *1*3 Certificate: 1606623 [For Division System] Applicable Standard: C22.2 No.0, C22.2 No.94, C22.2 No.157, C22.2 No.213, C22.2 No.61010-1, C22.2 No.61010-2-030 Intrinsically Safe for Class I, Division 1, Groups A, B, C & D, Class II, Division 1, Groups E, F & G, Class III, Division 1, Nonincendive for Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G, Class III, Division 1 Enclosure: Type 4X, Temp. Code: T4 Amb. Temp.: -50 to 60°C(-58 to 140°F) *2 Electrical Parameters: [Intrinsically Safe] Vmax=30V, Imax=200mA, Pmax=0.9W, Ci=10nF, Li=0 µH [Nonincendive] Vmax=30V, Ci=10nF, Li=0 µH [For Zone System] Applicable Standard: CAN/CSA-C22.2 60079-0, CAN/CSA-E60079-11, CAN/CSA-E60079-15, CAN/CSA-C22.2 No.60529 Ex ia IIC T4, Ex nL IIC T4 Enclosure: IP66/IP67 Amb. Temp.: -50 to 60°C(-58 to 140°F) *2, Max. Process Temp.: 120°C(248°F) Electrical Parameters: [Ex ia] Ui=30V, li=200mA, Pi=0.9W, Ci=10nF, Li=0 µH [Ex nL] Ui=30V, Ci=10nF, Li=0 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</p>	CS1
	<p>Combined CF1 and CS1 *1*3</p>	CU1
IECEX	<p>IECEX Flameproof Approval *1 Applicable Standard: IEC 60079-0, IEC60079-1 Certificate: IECEX CSA 07.0008 Flameproof for Zone 1, Ex d IIC T6...T4 Gb Enclosure: IP66/IP67 Max.Process Temp.: T4;120°C(248°F), T5;100°C(212°F), T6; 85°C(185°F) Amb.Temp.: -50 to 75°C(-58 to 167°F) for T4, -50 to 80°C(-58 to 176°F) for T5, -50 to 75°C(-58 to 167°F) for T6</p>	SF2
	<p>IECEX Intrinsically safe and Flameproof Approval *1*3 Intrinsically safe Ex ia Certificate: IECEX DEK 11.0081X Applicable Standard: IEC 60079-0, IEC 60079-11 Ex ia IIC T4 Ga Enclosure: IP66/IP67 Amb. Temp.: -50 to 60 °C(-58 to 140 °F), Max. Process Temp.: 120 °C(248 °F) Electrical Parameters: Ui=30 V, li=200 mA, Pi=0.9 W, Ci=27.6 nF, Li=0 µH Intrinsically safe Ex ic Certificate: IECEX DEK 13.0061X Applicable Standard: IEC 60079-0, IEC 60079-11 Ex ic IIC T4 Gc IP code: IP66 Amb. Temp.: -30 to 60°C(-22 to 140°F) *2, Max. Process Temp.: 120°C(248°F) Electrical Parameters: Ui=30V,Ci=27.6 nF, Li=0 µH Flameproof Certificate: IECEX CSA 07.0008 Applicable Standard: IEC 60079-0, IEC60079-1 Flameproof for Zone 1, Ex d IIC T6...T4 Gb Enclosure: IP66/IP67 Max.Process Temp.: T4;120°C(248°F), T5;100°C(212°F), T6; 85°C(185°F) Amb.Temp.: -50 to 75°C(-58 to 167°F) for T4, -50 to 80°C(-58 to 176°F) for T5, -50 to 75°C(-58 to 167°F) for T6</p>	SU21

*1: Applicable for Electrical connection code 2, 4, 7, 9, C and D.

*2: Lower limit of temperature is -15°C (5°F) when /HE is specified.

*3: Not applicable for output signal code Q.

■ OPTIONAL SPECIFICATIONS

Item		Description	Code	
High accuracy type *1*21*29		High accuracy	HAC	
Painting	Color change	Amplifier cover only*2	P□	
		Amplifier cover and terminal cover, Munsell 7.5 R4/14	PR	
	Coating change	Anti-corrosion coating*3	X2	
316 SST exterior parts		316 SST zero-adjustment screw and setscrews*4	HC	
Fluoro-rubber O-ring		All O-rings of amplifier housing. Lower limit of ambient temperature: -15°C (5°F)	HE	
Lightning protector		Transmitter power supply voltage: 10.5 to 32 V DC (10.5 to 30 V DC for intrinsically safe type, 9 to 32 V DC for Fieldbus communication type.) Allowable current: Max. 6000 A (1×40 μs), Repeating 1000 A (1×40 μs) 100 times Applicable Standards: IEC 61000-4-4, IEC 61000-4-5	A	
Oil-prohibited use*5*29		Degrease cleansing treatment	K1	
		Degrease cleansing treatment with fluorinated oilfilled capsule. Operating temperature -20 to 80°C (-4 to 176°F)	K2	
Oil-prohibited use with dehydrating treatment*5*29		Degrease cleansing and dehydrating treatment	K5	
		Degrease cleansing and dehydrating treatment with fluorinated oilfilled capsule. Operating temperature -20 to 80°C (-4 to 176°F)	K6	
Capsule fill fluid*29		Flourinated oil filled in capsule Operating temperature -20 to 80°C (-4 to 176°F)	K3	
Calibration units*6		P calibration (psi unit)	D1	
		bar calibration (bar unit)	(See Table for Span and Range Limits.) D3	
		M calibration (kgf/cm ² unit)	D4	
Plug option*24*25*29		Long vent*7: Total length: 119 mm (standard: 34 mm); Total length when combining with optional code K1, K2, K5, and K6: 130 mm. Material: 316 SST U1.	U1	
		Without vent and drain plugs	UN	
Gold-plated capsule gasket*8*29		Gold-plated 316L SST capsule gasket. Without drain and vent plugs.	GS	
Gold-plated diaphragm*9*29		Surface of isolating diaphragms are gold plated, effective for hydrogen permeation.	Gold plate thickness: 3 μm	A1
			Gold plate thickness: 10 μm	A2
Output limits and failure operation*10		Failure alarm down-scale : Output status at CPU failure and hardware error is -5%, 3.2mA DC or less for 4 to 20 mA output type, and -5%, 0.8V DC or less for 1 to 5 V output type.	C1	
		NAMUR NE43 Compliant Output signal limits: 3.8 mA to 20.5 mA *22	Failure alarm down-scale: Output status at CPU failure and hardware error is -5%, 3.2 mA DC or less.	C2
			Failure alarm up-scale: Output status at CPU failure and hardware error is 110%, 21.6 mA or more.	C3
Body option*11*29 		Right side high pressure, without drain and vent plugs	N1	
		N1 and Process connection, based on IEC61518 with female thread on both sides of cover flange, with blind kidney flanges on back	N2	
		N2, and Material certificate for cover flange, diaphragm, capsule body, and blind kidney flange	N3	
Wired tag plate		316 SST tag plate wired onto transmitter	N4	
Data configuration at factory*12		Data configuration for HART communication type	Software damping, Descriptor, Message CA	
		Data configuration for BRAIN communication type	Software damping CB	
Material certificate*13*29		Cover flange *14	M01	
		Cover flange, Process connector *15	M11	
		Cover flange, Diaphragm, Capsule body*14*30	MA1	
		Cover flange, Process connector, Diaphragm, Capsule body*15*26	MC1	
		Cover flange, Bolt and Nut for cover flange, Diaphragm, Capsule body, Vent and Drain plug, Vent screw, Capsule gasket*14*23*25	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 gaske*15*23*25	MH1	
Pressure test/ Leak test certificate*16*29		Test Pressure: 500 kPa (2000 inH ₂ O)*17	Nitrogen Gas*20 Retention time: one minute	T11
		Test Pressure: 3.5 MPa (500 psi)*18		T01
		Test Pressure: 16 MPa (2300 psi)*19		T12
Parameter list*27		List of setting and adjustment parameters	YP	
Functional safety(SIL)*28		Low temperature expansion of functional safety Amb.Temp.: -55 to 85°C	SLT	

- *1: Applicable for wetted parts material code S or L. Not applicable for /A2.
- *2: Not applicable for amplifier housing code 2 and 3.
- *3: Not applicable with color change option. Not applicable for amplifier housing code 2.
- *4: 316 or 316L SST. The specification is included in amplifier code 2.
- *5: Applicable for wetted parts material code S, M, H and T.
- *6: The unit of MWP (Max. working pressure) on the name plate of a housing is the same unit as specified by option codes D1, D3, and D4.
- *7: Applicable for vertical impulse piping type (installation code 3 or 7) and wetted parts material code S, M, H and T.
- *8: Applicable for wetted parts material code S; process connection code 0 and 5; and installation code 8 and 9. Not applicable for option code U1, N2, N3 and M11. No PTFE is used for wetted parts.
- *9: Applicable for wetted parts material code S or L. /A2 is not applicable with FM approval.
- *10: Applicable for output signal codes D and J. The hardware error indicates faulty amplifier or capsule.
- *11: Applicable for wetted parts material code S, M, H and T.; process connection codes 3, 4, and 5; installation code 9; and mounting bracket code N. Process connection faces on the other side of zero adjustment screw.
- *12: Also see 'Ordering Information'.
- *13: Material traceability certification, per EN 10204 3.1B.
- *14: Applicable for process connections code 0 and 5.
- *15: Applicable for process connections code 1, 2, 3, and 4.
- *16: The unit on the certificate is always Pa unit regardless of selection of option code D1, D3 or D4.
- *17: Applicable for capsule code H.
- *18: Applicable for capsule code A.
- *19: Applicable for capsule code B.
- *20: Dry nitrogen gas is used for oil-prohibited use (option codes K1, K2, K5, and K6).
- *21: Not applicable for output signal code Q.
- *22: The 1 to 5 V voltage output corresponding to 4 to 20 mA current output is applied to output signal code Q which is non-compliant to NAMUR NE43.
- *23: Not applicable with plug option code UN.
- *24: Not applicable for installation code -U.
- *25: Not applicable with option code N1, N2, N3 and GS.
- *26: Applicable for option code UN and N1.
- *27: Applicable for output signal code D and J.
- *28: Not applicable for output signal code F, G, Q, process connections code for diaphragm seal system.
- *29: Not applicable with process connections code for diaphragm seal system B and G.
- *30: Applicable for option code UN, N1, and GS.

■ OPTIONAL SPECIFICATIONS (FOR DIAPHRAGM SEAL SYSTEM)

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

Item	Descriptions	Code
Capsule fill fluid	Fluorinated oil filled in capsule Operating temperature -20 to 80°C (-4 to 176°F)	K13
Material certificate	Bolt and nut for cover flange	M51

EJA430E Overview

Refer to the General Specification sheet located under the 'Downloads' tab for detailed specifications.

Measurement Types	
Primary Variable	Gauge Pressure
Reference Accuracy	
Primary Variable	±0.055% of Span ±0.04% of Span (with /HAC option)
Stability (All Normal Operating Conditions)	
Primary Variable	±0.1% of URL per 10 years
Response Time	
Primary Variable	90ms
Rangeability	
Primary Variable	100:1
Burst Pressure (Absolute)	
EJA510E	Wetted Parts code S: 10,000 psi All other Wetted Parts: 6,800 psi
Specification Conformance	
EJA-E Series	±3σ

DPharp EJA[®]



Indicator with LPS



Basic Indicator



No Indicator

Local Display



Standard



Ultra-low Copper



Stainless Steel

Housing



4 to 20mA

1 to 5VDC (Low Power)

Output Signal

BRAIN

HART
COMMUNICATION PROTOCOL



Fieldbus



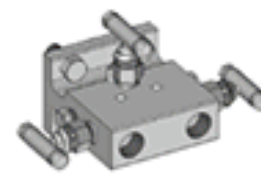
Digital Communication



Product Certification



Adapters



3-Valve Manifold



5-Valve Manifold

Process Connection