



MODEL AND SUFFIX CODES

Model	Suffix Codes	Description
EJA110A	Differential pressure transmitter
Output Signal	-D -E -F -G	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)	L M H V	0.5 to 10 kPa {50 to 1000 mmH ₂ O} {2 to 40 inH ₂ O} {5 to 100 mbar} 1 to 100 kPa {100 to 10000 mmH ₂ O} {4 to 400 inH ₂ O} {10 to 1000 mbar} 5 to 500 kPa {0.05 to 5 kgf/cm ² } {20 to 2000 inH ₂ O} {50 to 5000 mbar} 0.14 to 14 MPa {1.4 to 140 kgf/cm ² } ^{*1} {20 to 2000 psi} {1.4 to 140 bar}
Wetted parts material ^{*11}	S# H# M# T A# D B#	[Body] ^{*2} [Capsule] [Vent plug] SCS14A SUS316L ^{*5} SUS316 ^{*13} SCS14A Hastelloy C-276 ^{*6*12} SUS316 ^{*13} SCS14A Monel ^{*6} SUS316 ^{*13} SCS14A Tantalum ^{*6} SUS316 ^{*13} Hastelloy C-276 equivalent ^{*3} Hastelloy C-276 ^{*6*12} Hastelloy C-276 ^{*12} Hastelloy C-276 equivalent ^{*3} Tantalum ^{*6} Hastelloy C-276 ^{*12} Monel equivalent ^{*4} Monel ^{*6} Monel
Process connections	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 material	A B C	[Maximum working pressure] SCM435 16 MPa {160 kgf/cm ² } ^{*9} SUS630 16 MPa {160 kgf/cm ² } ^{*9} SUH660 16 MPa {160 kgf/cm ² } ^{*9}
Installation	-2 -3 -6 -7 -8 -9	Vertical impulse piping type, right side high pressure, process connector upside ^{*7} Vertical impulse piping type, right side high pressure, process connector downside ^{*7} Vertical impulse piping type, left side high pressure, process connector upside ^{*7} Vertical impulse piping type, left side high pressure, process connector downside ^{*7} Horizontal impulse piping type, right side high pressure ^{*8} Horizontal impulse piping type, left side high pressure ^{*8}
Electrical connection	0 2 3 4 5 7 8 9 A C D	G1/2 female, one electrical connection 1/2 NPT female, two electrical connections without blind plug Pg 13.5 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 Pg 13.5 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 SUS316 blind plug 1/2 NPT female, two electrical connections and a SUS316 blind plug M20 female, two electrical connections and a SUS316 blind plug
Integral indicator	D E N	Digital indicator Digital indicator with the range setting switch ^{*10} (None)
Mounting bracket	A B J C D K N	SECC Carbon steel 2-inch pipe mounting (flat type) SUS304 2-inch pipe mounting (flat type) SUS316 2-inch pipe mounting (flat type) SECC Carbon steel 2-inch pipe mounting (L type) SUS304 or SCS13A 2-inch pipe mounting (L type) SUS316 or SCS14A 2-inch pipe mounting (L type) (None)
Optional codes	/□	Optional specification

The “►” marks indicate the most typical selection for each specification. Example: EJA110A-DMS5A-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: For Wetted parts material code H, M, T, A, D, and B, the range limits are 0 to 14 MPa{0 to 140 kgf/cm²}.

*2: Indicates material of cover flanges and process connectors.

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

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

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

*6: Indicates diaphragm and other capsule wetted parts material.

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

*8: If necessary, specify Mounting bracket code A, B or J.



- *9: For Capsule code L when combined with Wetted parts material code H, M, T, A, D, and B, the maximum working pressure is 3.5 MPa {35 kgf/cm²}.
- *10: Not applicable for Output signal code F and G.
- *11: Δ 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.
- *12: Hastelloy C-276 or ASTM N10276.
- *13: SUS316 or ASTM grade 316.

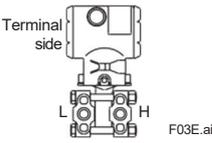
■ OPTIONAL SPECIFICATIONS (For Explosion Protected type “◇”)

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 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

OPTIONAL SPECIFICATIONS

Item		Description	Code
Painting ^{*10}	Color change	Amplifier cover only	P□
		Amplifier cover and terminal cover, Munsell 7.5 R4/14	PR
	Coating change	Epoxy resin-baked coating ^{*11}	X1
316 SST exterior parts		Exterior parts on the amplifier housing (name plates, tag plate, zero-adjustment screw, stopper screw) will become 316 SST ^{*12}	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	A
Oil-prohibited use ^{*6}		Degrease cleansing treatment	K1
		Degrease cleansing treatment with fluorinated oilfilled capsule. Operating temperature -20 to 80°C	K2
Oil-prohibited use with dehydrating treatment ^{*6}		Degrease cleansing and dehydrating treatment	K5
		Degrease cleansing and dehydrating treatment with fluorinated oilfilled capsule. Operating temperature -20 to 80°C	K6
Calibration units ^{*1}	P calibration (psi unit)	(See Table for Span and Range Limits.)	D1
	bar calibration (bar unit)		D3
	M calibration (kgf/cm ² unit)		D4
Sealing treatment to SUS630 nuts		Sealant (liquid silicone rubber) is coated on JIS SUS630 cover flange mounting nuts against stress corrosion cracking.	Y
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. 0.5 sec (for L capsule: max. 0.6 sec)	F1
Failure alarm down-scale ^{*3}		Output status at CPU failure and hardware error is -5%, 3.2 mA or less.	C1
NAMUR NE43 compliant ^{*3 *9}	Output signal limits: 3.8 mA to 20.5 mA	Failure alarm down-scale: output status at CPU failure and hardware error is -5%, 3.2 mA or less.	C2
		Failure alarm up-scale: output status at CPU failure and hardware error is 110%, 21.6 mA or more.	C3
Stainless steel amplifier housing ^{*4}		Amplifier housing material: SCS14A stainless steel (equivalent to SUS316 cast stainless steel or ASTM CF-8M)	E1
Gold-plate ^{*5}		Surface of isolating diaphragms are gold plated, effective for hydrogen permeation.	A1
Configuration		Custom software configuration	R1
Body option ^{*8}		Right side high pressure, without drain and vent plugs	N1
		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
Wired tag plate		Stainless steel tag plate wired onto transmitter	N4
Data configuration at factory ^{*13}		Description into "Descriptor" parameter of HART protocol	CA
Mill Certificate		Cover flange ^{*14}	M01
		Cover flange, Process connector ^{*15}	M11
Pressure test/ Leak test Certificate ^{*16}	Test Pressure: 3.5 MPa{35 kgf/cm ² } ^{*17}	Nitrogen(N ₂) Gas ^{*19} Retention time: 10 minutes	T01
	Test Pressure: 16 MPa{160 kgf/cm ² } ^{*18}		T12

*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.

*2: Applicable for vertical impulse piping type (Installation code 2, 3, 6, and 7) and Wetted parts material code S, H, M, and T.

*3: 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.

*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: Applicable for Wetted parts material code S, H, M, and T.

*7: Applicable for Output signal code D and E. Write protection switch is attached for Output code E.

*8: Applicable for Wetted parts material code S, H, T, and M; Process connection code 3, 4, and 5; Installation code 9; and Mounting bracket code N. Process connection faces on the other side of zero adjustment screw.

*9: Not applicable for Option code C1.



- *10: 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, is available by special order as sea water, alkaline, and acid resistant.
- *11: Not applicable for color change option.
- *12: 316 or 316L SST. The specification is included in option code /E1.
- *13: Applicable for Output signal code E.
- *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 MPa regardless of selection of option code D1, D3, or D4.
- *17: Applicable for Capsule code L when combined with Wetted parts material code H, M, T, A, D, and B.
- *18: Applicable for Capsule code M, H, and V and Capsule code L when combined with Wetted parts material code S.
- *19: Pure nitrogen gas is used for oil-prohibited use (Option code K1, K2, K5, and K6).