

# EJX910A

## Den nya multivariabla transmittern för massflödesmätning

EJX är den 3:e generationen av digitala transmitttrar från Yokogawa

EJX använder Yokogawas sensor DPharp med kiselresonans teknik som ger en digital signal direkt från sensorn. Därmed elimineras behovet av A/D omvandlare i transmittern.

### Enkel

- Massflöde direkt ur givaren
- 200/1 verkligt inställbart mätområde
- Ingen påverkan av statiskt tryck
- Ingen påverkan av temperatur

### Ekonomisk

- 4 – 20 mA för tryck, diff. tryck och temperatur
- Pulsutgång för massflöde
- Mjukvara som tar hänsyn till alla parametrar vid beräkning av massflöde

### Noggrann

- Onoggrannheten är  $\pm 1\%$  av aktuellt massflöde ner till 10% av maxflöde
- Diff. tryck  $\pm 0,04\%$
- Tryck  $\pm 0,1\%$
- Temperatur  $\pm 0,5\text{ }^{\circ}\text{C}$
- SIP-testad



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## MODEL AND SUFFIX CODES

Model	Suffix Codes	Description
<b>EJX910A</b>	.....	Multivariable transmitter
Output signal	-E ..... -F .....	4 to 20 mA DC with digital communication (HART protocol) Digital communication (FOUNDATION fieldbus protocol)
Measurement span (Capsule)	L ..... M ..... H .....	0.1 to 10 kPa (0.4 to 40 inH <sub>2</sub> O) 0.5 to 100 kPa (2 to 400 inH <sub>2</sub> O) 2.5 to 500 kPa (10 to 2000 inH <sub>2</sub> O)
Wetted parts material <sup>*1</sup>	S .....	Refer to Table 7.
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	J ..... G ..... C .....	ASTM-B7 carbon steel 316L SST stainless steel ASTM grade 660 stainless steel
Installation	☆ -7 ..... -8 ..... -9 ..... -B .....	Vertical piping, left side high pressure, and process connection downside Horizontal piping and right side high pressure Horizontal piping and left side high pressure Bottom Process Connection, left side high pressure <sup>*8</sup>
Amplifier housing	1 ..... 2 .....	Cast aluminum alloy ASTM CF-8M stainless steel
Electrical connection	2 ..... 4 ..... 7 ..... 9 ..... C ..... D .....	1/2NPT female, two electrical connections (One connection for RTD) M20 female, two electrical connections (One connection for RTD) 1/2NPT female, two electrical connections and a blind plug <sup>*2*6*7</sup> M20 female, two electrical connections and a blind plug <sup>*2*6*7</sup> 1/2 NPT female, two electrical connections and a 316 SST blind plug <sup>*2*8</sup> M20 female, two electrical connections and a 316 SST blind plug <sup>*2*8</sup>
Integral indicator	☆ D ..... N .....	Digital indicator None
Mounting bracket	B ..... D ..... G ..... J ..... K ..... M ..... ☆ N .....	304 SST 2-inch pipe mounting, flat type (for horizontal piping) 304 SST 2-inch pipe mounting, L type (for vertical piping) 304 SST 2-inch pipe mounting (for bottom process connection type) <sup>*8</sup> 316 SST 2-inch pipe mounting, flat type (for horizontal piping) <sup>*8</sup> 316 SST 2-inch pipe mounting, L type (for vertical piping) <sup>*8</sup> 316 SST 2-inch pipe mounting (for bottom process connection type) <sup>*8</sup> None
External temperature input <sup>*3</sup>	-0 ... -1 ... -2 ... -3 ... -4 ... -B ... -C ... -D ...	Fixed temperature (without cable) <sup>*5</sup> RTD input with 0.5 m (1.64 ft) of shielded cable and two cable glands <sup>*7</sup> RTD input with 4 m (13.1 ft) of shielded cable and two cable glands <sup>*7</sup> RTD input with 7.5 m (24.6 ft) of shielded cable and two cable glands <sup>*7</sup> RTD input with 25 m (81 ft) of shielded cable and two cable glands RTD input with 4 m (13.1 ft) of shielded cable without cable gland <sup>*4</sup> RTD input with 7.5 m (24.6 ft) of shielded cable without cable gland <sup>*4</sup> RTD input with 25 m (81 ft) of shielded cable without cable gland <sup>*4</sup>
Measurement function	☆ A .. B ..	Multi Sensing (DP, P and T) Mass Flow Measurement (Flow, DP, P and T)
Option codes		<input type="checkbox"/> Optional specification

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

\*1: ⚠ 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.

\*2: For External Temperature Input code 0 (Fixed temperature).

\*3: Recommended External Temperature Input Cable is as shown in Table 6. RTD is not provided.

\*4: Specify when using conduit for RTD connection.

\*5: Preset external temperature value is used for density compensation.

\*6: Material of a blind plug is aluminum alloy or 304 SST.

\*7: Not applicable for Amplifier housing code 2.

\*8: Not applicable for option code /FS15.

Gällande optioner och Ex klassningar se original datablad eller kontakta OmniProcess AB