

高性能差壓傳送器 EJX110A 採用單晶矽感測器，適用於測量液體、氣體或蒸汽流量以及液位、密度和壓力。

EJX110A 輸出與測得的壓差對應 4 至 20 mA 直流信號。其高精度和穩定的感測器還可以測量靜態壓力，靜態壓力可以顯示在集成指示器上或通過 BRAIN 或 HART 通信進行遠程監控。其他主要功能包括快速回應、使用通信進行遠程置、診斷和可選的壓力高/低警報狀態輸出。

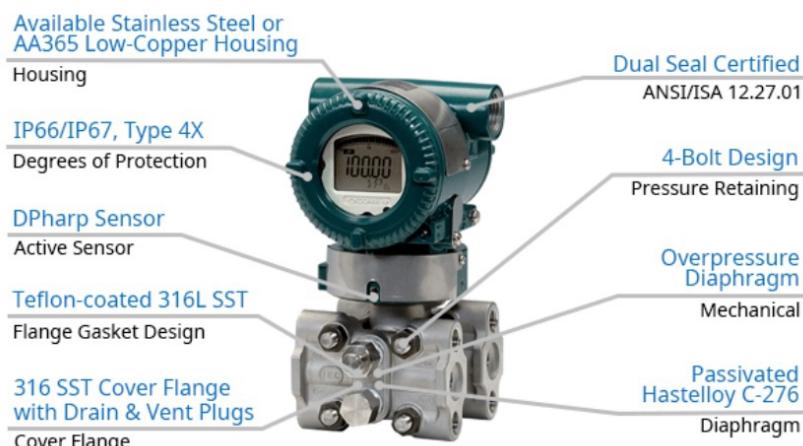
多傳感技術提供了先進的診斷功能，可檢測諸如導壓管路阻塞或伴熱破損等異常情況。

基金會現場總線和 PROFIBUS PA 協議類型也可用。除現場總線和 PROFIBUS 類型外，所有標準配置的 EJX 系列型號均經認證符合 SIL 2 安全要求。

特性

- $\pm 0.04\%$ 準確度（可選 0.025% 精度）
- 每 15 年 $\pm 0.1\%$ 穩定性
- 90 毫秒回應時間
- 3,600 psi MWP
- Exida 和 TUV SIL 2/3 認證
- 本機參數設定 (LPS)

面板說明



範圍說明

□ SPAN AND RANGE LIMITS

Measurement Span/Range	kPa	inH ₂ O (D1)	mbar (D3)	mmH ₂ O (D4)
F*	Span	0.1 to 5	0.4 to 20	1 to 50
	Range	-5 to 5	-20 to 20	-50 to 50
L*	Span	0.1 to 10	0.4 to 40	1 to 100
	Range	-10 to 10	-40 to 40	-100 to 100
M	Span	0.5 to 100	2 to 400	5 to 1000
	Range	-100 to 100	-400 to 400	-1000 to 1000
H	Span	2.5 to 500	10 to 2000	25 to 5000
	Range	-500 to 500	-2000 to 2000	-5000 to 5000
V	Span	0.07 to 14 MPa	10 to 2000 psi	0.7 to 140 bar
	Range	-0.5 to 14 MPa	-71 to 2000	-5 to 140 bar

*: F capsule is applicable for wetted parts material code S.

L capsule is applicable for wetted parts material code other than S and L.



Measurement span	F
Reference accuracy	$X \leq \text{span}$ $\pm 0.04\%$ of Span
	$X > \text{span}$ $\pm (0.015+0.01 \text{ URL}/\text{span})\%$ of Span
X	2 kPa (8 inH ₂ O)
URL (upper range limit)	5 kPa (20 inH ₂ O)

Measurement span	M
Reference accuracy	$X \leq \text{span}$ $\pm 0.04\%$ of Span
	$X > \text{span}$ $\pm (0.002+0.0019 \text{ URL}/\text{span})\%$ of Span
X	5 kPa (20 inH ₂ O)
URL (upper range limit)	100 kPa (400 inH ₂ O)

Measurement span	H
Reference accuracy	$X \leq \text{span}$ $\pm 0.04\%$ of Span
	$X > \text{span}$ $\pm (0.005+0.0049 \text{ URL}/\text{span})\%$ of Span
X	70 kPa (280 inH ₂ O)
URL (upper range limit)	500 kPa (2000 inH ₂ O)

■ 選型表

Model	Suffix Codes		Description
EJX110A			Differential pressure transmitter
Output signal	-D -E -J -F -G		4 to 20 mA DC with digital communication (BRAIN protocol) 4 to 20 mA DC with digital communication (HART 5 protocol) 4 to 20 mA DC with digital communication (HART 5/HART 7 protocol) (Refer to GS 01C25T01-01EN) Digital communication (FOUNDATION Fieldbus protocol, refer to GS 01C25T02-01EN) Digital communication (PROFIBUS PA protocol, refer to GS 01C25T04-01EN)
Measurement span (capsule)	F L M H V		0.1 to 5 kPa (0.4 to 20 inH ₂ O) (For Wetted parts material code S) 0.1 to 10 kPa (0.4 to 40 inH ₂ O) (For Wetted parts material code M, H, T, A, D, B and W) 0.5 to 100 kPa (2 to 400 inH ₂ O) 2.5 to 500 kPa (10 to 2000 inH ₂ O) 0.07 to 14 MPa (10 to 2000 psi)
Wetted parts material ^{*1}	<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 material	J G C		B7 carbon steel 316L SST 660 SST
Installation	-7 -8 ▶ -9 -B -U		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 ^{*2} Universal flange ^{*2}
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 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 ^{*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"/>		Optional specification

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: Only applicable for Wetted parts material code S.

*3: Not applicable for measurement span code F.

*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.