

EJA-E and EJX Pressure Transmitters

Product information for five Yokogawa gauge and differential pressure transmitters

This sheet covers two **gauge pressure** transmitters from the EJA-E series (**EJA530E** in-line, **EJA430E** traditional mount), the **EJA110E** differential pressure transmitter, and two EJX-series transmitters with the DPharp sensor: the **EJX530A** gauge and the **EJX110A** differential pressure transmitter.

At a glance

Product	Type	Range	Accuracy	Outputs
EJA530E	Gauge pressure, in-line	10 kPa to 50 MPa span	+/-0.055% of span (capsules A, C)	4-20 mA HART / BRAIN, FF, PROFIBUS PA
EJA430E	Gauge pressure, traditional mount	5 kPa to 16 MPa span	+/-0.055% of span (+/-0.04% /HAC)	4-20 mA HART / BRAIN, FF, PROFIBUS PA
EJA110E	Differential pressure	0.5 kPa to 14 MPa span	+/-0.055% of span (+/-0.04% option)	4-20 mA HART / BRAIN, FF, PROFIBUS PA
EJX530A	Gauge pressure, in-line	8 kPa to 50 MPa span	+/- (0.005 + 0.0035 URL/span)%	4-20 mA HART / BRAIN
EJX110A	Differential pressure + static pressure	Capsule dependent*	+/-0.04% of span (+/-0.025% option)	4-20 mA HART / BRAIN, 1-5 V, FF, PROFIBUS PA

Common features

- DPharp digital sensor technology, with 4 to 20 mA output and BRAIN or HART communication
- FOUNDATION Fieldbus and PROFIBUS PA versions available on most models
- SIL 2 capability for single use and SIL 3 for dual use (IEC 61508)
- Ambient temperature -40 to 85 C and IP66/IP67 enclosure on the EJA-E models
- FM, CSA, ATEX and IECEx hazardous-area approvals

Product profiles

EJA530E

In-line mount gauge pressure transmitter

In-line mount gauge pressure transmitter for liquid, gas and steam pressure, with 316L wetted parts as standard.

- Capsule A: 10 to 200 kPa span; B: 0.02 to 2 MPa; C: 0.1 to 10 MPa; D: 0.5 to 50 MPa (70 MPa with /HG)
- Reference accuracy $\pm 0.055\%$ of span on capsules A and C; B and D use span-dependent formulas
- Maximum working pressure 4 MPa (A, B), 20 MPa (C) and 60 MPa (D)
- Process temperature -40 to 120 C; ambient -40 to 85 C (-30 to 80 C with LCD)
- Connections 1/2 NPT female or male, G1/2 or M20x1.5; 316L or Hastelloy C-276
- SIL 2 for single use and SIL 3 for dual use; IP66/IP67

EJA430E

Traditional-mount gauge pressure transmitter

Traditional-mount gauge pressure transmitter with a side process connection and a choice of wetted materials.

- Capsule H: 5 to 500 kPa span; A: 0.03 to 3.5 MPa; B: 0.14 to 16 MPa
- Reference accuracy $\pm 0.055\%$ of span, or $\pm 0.04\%$ with the /HAC high-accuracy option
- Maximum working pressure 500 kPa (H), 3.5 MPa (A) and 16 MPa (B)
- Wetted materials include 316/316L, Hastelloy C-276, Monel, tantalum and super duplex
- Connections Rc1/4, Rc1/2, 1/4 NPT and 1/2 NPT female
- SIL 2 for single use and SIL 3 for dual use (not FF / PROFIBUS PA types)

EJA110E

Differential pressure transmitter

Differential pressure transmitter for flow, level, density and static pressure measurement, with a choice of capsules for different spans.

- Capsule F: 0.5 to 5 kPa span; L: 0.5 to 10 kPa; M: 1 to 100 kPa; H: 5 to 500 kPa; V: 0.14 to 14 MPa
- Reference accuracy $\pm 0.055\%$ of span, or $\pm 0.04\%$ with the high-accuracy option (M, H and V capsules)
- Hastelloy C-276 diaphragm as standard; Monel, tantalum and super duplex options
- Outputs: 4-20 mA with BRAIN or HART 5/7, FOUNDATION Fieldbus, PROFIBUS PA or 1-5 V low power
- SIL 2 for single use and SIL 3 for dual use; FM, ATEX, CSA and IECEx approvals

EJX530A

In-line mount gauge pressure transmitter

In-line gauge pressure transmitter for liquid, gas or steam pressure, with remote setup and advanced diagnostics.

- Capsule A: 8 to 200 kPa span; B: 0.02 to 2 MPa; C: 0.1 to 10 MPa; D: 0.5 to 50 MPa
- Accuracy $\pm (0.005 + 0.0035 \text{ URL/span})\%$ for spans of 0.2 MPa and above
- Long-term stability $\pm 0.1\%$ of the upper range limit over 15 years; response time 90 ms
- Wetted parts in 316L or Hastelloy C-276; connections of 1/2 NPT, G1/2 or M20x1.5
- Diagnostics for impulse line blockage and heat trace monitoring; SIL 2 single, SIL 3 dual use

EJX110A

Differential pressure transmitter

Multi-sensing differential pressure transmitter that measures differential and static pressure at the same time with the DPharp digital sensor.

- Differential pressure accuracy $\pm 0.04\%$ of span, with $\pm 0.025\%$ as an option
- Static pressure measured as a secondary variable, accuracy $\pm 0.2\%$ of span
- Rangeability of 200:1; long-term stability $\pm 0.1\%$ of URL per 15 years
- Overpressure effect $\pm 0.03\%$ of URL, with automatic overpressure recovery
- Outputs: 4-20 mA with BRAIN or HART, 1-5 V low power with HART, FOUNDATION Fieldbus or PROFIBUS PA
- SIL 2 for single use and SIL 3 for dual use; FM, CSA, ATEX and IECEx approvals

Notes and sources

* The EJX110A span table could not be retrieved from the sources reached, so its ranges are not listed. They depend on the capsule selected in the model code.

The EJA530E accuracy for capsules B and D, and the EJX530A accuracy, are span-dependent formulas in the data sheets; the table shows the simple figure only where one is given. EJA530E and EJA430E temperatures, working pressures and approvals are taken from their general specifications; the EJA110E, EJX530A and EJX110A values come from Yokogawa data sheets and product pages. Ranges, materials and options depend on the capsule and model code selected.

The EJX110A has the same options for SIL and approvals as the other EJX models, according to Yokogawa's product page, and the 1-5 V and fieldbus options are as listed there.

Compiled from Yokogawa general specifications and product pages. Confirm against the current Yokogawa documentation before quoting or ordering.