

User's Manual

DPharp EJX Series and EJA-E Series Differential Pressure and Pressure Transmitters



Manual Change No.22-24E

The following information in regards of RoHS Directive is revised for EJX series and EJA-E series. Please use this manual change for the manuals as listed in below.

1. Applicable Users' Manuals

IM No.(Edition)	Product model	Applicable Part	Applicable item
IM 01C25A01-01E (16)	EJX and EJA-E Series Differential Pressure and Pressure Transmitters Installation Manual	EU RoHS Directive	2 (revise) The underlined part is the revised part.
IM 01C25B01-01E (24)	EJX110A, EJX120A, EJX130A, EJX310A, EJX430A, EJX440A, EJA110E, EJA120E, EJA130E, EJA310E, EJA430E, EJA440E		
IM 01C25F01-01E (18)	EJX510A, EJX530A, EJX610A, EJX630A, EJA510E, EJA530E		
IM 01C25K01-01E (13)	EJX115A, EJA115E		
IM 01C25R01-01E (19)	EJX910A, EJX930A		

2. Contents of change

Before Change	After Change
<p>EU-RoHS Directive</p> <p>Applicable standard: EN IEC 63000 Applicable production sites are shown below. The condition of the RoHS compliant production sites are as follows: Japan, Germany, Saudi Arabia, India, USA The production sites can be confirmed by the serial number shown in the frame of "NO." in the name plate of the product. Serial numbers (9 letters): AAnnnnnnn AA: Identification code of production site Japan: Use "91" or "90" USA: Use "U1" Germany: Use "D1" Saudi Arabia: Use "Y3" India: Use "Y1"</p>	<p>EU-RoHS Directive</p> <p>Applicable standard: EN IEC 63000 Applicable production sites are shown below. The condition of the RoHS compliant production sites are as follows: Japan, Germany, Saudi Arabia, <u>UAE</u>, India, USA The production sites can be confirmed by the serial number shown in the frame of "NO." in the name plate of the product. Serial numbers (9 letters): AAnnnnnnn AA: Identification code of production site Japan: Use "91" or "90" USA: Use "U1" Germany: Use "D1" Saudi Arabia: Use "Y3" <u>UAE: Use "Y4"</u> India: Use "Y1"</p>

User's Manual

DPharp EJX Series and EJA-E Series

Differential Pressure and Pressure Transmitters



Manual Change No.24-03E

For the products of EJX and EJA-E series with optional code /SU21 or /SU22, please refer to this manual change for handling cautions of IECEX Certification.

1. Applicable Users' Manuals

IM No. (Edition)	Document Name	Applicable Part	Applicable item
IM 01C25A01-01E (16)	EJX and EJA-E Series Differential Pressure and Pressure Transmitters Installation Manual	2. Handling Cautions 2.4 Installation of an Explosion-Protected Instrument 2.4.4 IECEX Certification	Change descriptions.
IM 01C25B01-01E (24)	Differential Pressure and Pressure Transmitters EJ□110□, EJ□120□, EJ□130□, EJ□310□, EJ□430□, and EJ□440□	2. Handling Cautions 2.9 Installation of an Explosion-Protected Instrument 2.9.4 IECEX Certification	
IM 01C25C01-01E (16)	Flange Mounted Differential Pressure Transmitters EJX210A and EJA210E		
IM 01C25F01-01E (18)	Absolute Pressure and Gauge Pressure Transmitters EJ□510□, EJ□530□, EJX610A and EJX630A		
IM 01C25H01-01E (15)	Diaphragm Sealed Differential Pressure and Pressure Transmitters EJ□118□ and EJ□438□		
IM 01C25K01-01E (13)	Low Flow Transmitter EJX115A and EJA115E		

2. Contents of change

b. IECEx Intrinsically Safe Ex ia for HART/BRAIN Protocol Type (Except for EJX9□0A)

Caution for IECEx Intrinsically safe Ex ic.

Note 1. EJX/EJA-E series pressure transmitters with optional code /SU21 or /SU22 are applicable for use in hazardous locations

- Applicable standards:
IEC 60079-0, IEC 60079-11
- Certificate number: IECEx DEK 13.0061X
- Specific Ex marking: Ex ic IIC T4 Gc
- Ambient temperature: $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
 $-15^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C} *$
- Process temperature: $-30^{\circ}\text{C} \leq T_p \leq +120^{\circ}\text{C}$
 $-15^{\circ}\text{C} \leq T_p \leq +120^{\circ}\text{C} *$

* When FKM O-rings are used.

(/HE is specified.)

- Enclosure: IP66
- Pollution degree: 2
- Overvoltage category: I
- Power supply: $\leq 30\text{ V}$, $\leq 21.6\text{ mA}$
- Dielectric strength:
500 V AC, r.m.s., 1 min Terminals: to Enclosure
Supply +
Supply -

Note 2. Specific condition of use

- Precaution shall be taken to minimize the risk from electrostatic discharges on the non-metallic parts (excluding glass parts) or coated parts of the equipment.
- The dielectric strength of at least 500 V of the intrinsically safe circuits of the equipment is limited only by the overvoltage protection. From the safety point of view, the intrinsically safe circuit of the equipment shall be assumed to be connected to earth.

Note 3. Installation and erection

Cable entry devices suitable for the thread form and the size of the cable entries must be used, according to the following marking on the equipment.

Screw Size	Marking
ISO M20 × 1.5 female	△ M
ANSI 1/2 NPT female	△ A or △ N or △ W

When installing the equipment, the selected Type of Protection should be ticked as follows.

- ☒ Ex ic IIC T4 Gc
☐ Ex ia IIC T4 Ga

Note 4. Use and setting-up (operation)

If the pressure transmitter is mounted in an area where explosive atmospheres may be present, it must be installed in such a way that the risk from electrostatic discharges.

Note 5. Maintenance and repair

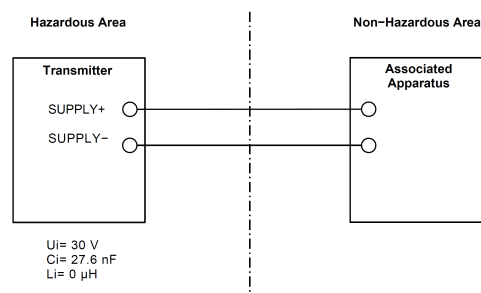


WARNING

A modification of the equipment would no longer comply with the construction described in the certificate documentation.

Only personnel authorized by Yokogawa Electric Corporation can repair the equipment.

Yokogawa Electric Corporation		Model	EJX Series				
Title	Control drawing						
No.	IIE019-A70	Page	-	Revision	7	Date	2023-08-21





Please use the following information to supplement the user's manual for the EJX and EJA-E Series Differential Pressure and Pressure Transmitters.

1. Applicable Users' Manuals

IM No. (Edition)	Document Name	Applicable part	Applicable item
IM 01C25A01-01E(16)	EJX and EJA-E Series Differential Pressure and Pressure Transmitters Installation Manual	(Page 52) 5.3.2 Wiring Installation (2) Flameproof Type	Change description
IM 01C25W05-01EN(8)	EJXC40A Digital Remote Sensor	(Page 5-3) 5.4.2 Wiring Installation (2) Flameproof Type	

2. Information to be changed/added

Please replace the existing descriptions by the following updated descriptions.

Item No.	Before Change	After Change
4	<p>Wiring Installation Flameproof Type</p> <p> IMPORTANT</p> <p>When electrical connection code "7" or "C" is specified, the blanking element at the electrical connection port is provided with sealing tape applied. As using sealing tape is prohibited in the hazardous area Group IIC by the requirements of IEC 60079-14, remove the sealing tape and apply appropriate seal to the blanking element in accordance with IEC 60079-14, if the instrument is used in conjunction with <u>gases allocated to Group IIC.</u></p>	<p>Wiring Installation Flameproof Type</p> <p> IMPORTANT</p> <p>When electrical connection code "7" or "C" is specified, the blanking element at the electrical connection port is provided with sealing tape applied. As using sealing tape is prohibited for Ex "d" entry devices by the requirements of IEC 60079-14, remove the sealing tape and apply appropriate seal to the blanking element in accordance with IEC 60079-14, if the instrument is used as Ex "d" equipment.</p>