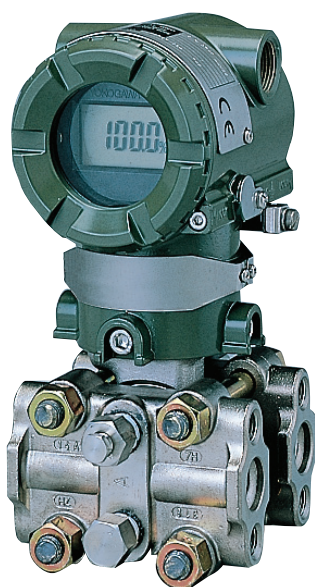


# EJA Series Differential Pressure and Pressure Transmitters Installation Manual

**CD-ROM included**

IM 01C22A01-01E

**vigilantplant®**



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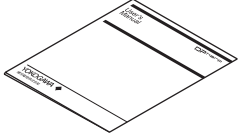


# 1. Introduction

Thank you for purchasing the DPharp electronic pressure transmitter.

This manual provides the basic guidelines for installation and wiring procedures of the DPharp EJA Series with BRAIN and HART protocols. It does not provide the product specific functional specifications and explanations, maintenance, troubleshooting, and fieldbus communication operating procedures, both FOUNDATION Fieldbus™ and PROFIBUS PA. For the items which are not covered in this manual, see the applicable user's manuals in the CD-ROM attached to this manual as listed in Table 1.1.

● **Installation manual (this document)**  
EJA series common manual

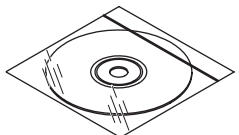


<Contents>

- Installation
- Impulse piping installation
- Wiring
- Zeroing

● **Attached CD-ROM includes PDF manuals for:**

- **Product specific manuals, 7 PDFs by model code**
- **HART operation manual, 1 PDF**
- **Fieldbus communication manuals, 2 PDFs**



<Contents of product specific manuals>

- Installation
- Impulse piping installation
- Wiring
- Zeroing
- BT200 operation
- Maintenance
- Specifications
- Parts list

F0101.ai

**Table 1.1 PDF Manual List and Applicable Style Code**

Models	Document No.	Style
EJA110A, EJA120A, and EJA130A	IM 01C21B01-01E	S1
EJA210A and EJA220A	IM 01C21C01-01E	S1
EJA310A, EJA430A, and EJA440A	IM 01C21D01-01E	S1
EJA510A and EJA530A	IM 01C21F01-01E	S2
EJA118W, EJA118N, and EJA118Y	IM 01C22H01-01E	S2
EJA438W and EJA438N	IM 01C22J01-01E	S2
EJA115	IM 01C22K01-01E	S3
EJA Series HART Protocol	IM 01C22T01-01E	—
EJA Series FOUNDATION Fieldbus Communication Type	IM 01C22T02-01E	—
EJA Series PROFIBUS PA Communication Type	IM 01C22T03-00E	—

## › Regarding This Manual

- This manual should be passed on to the end user.
- The contents of this manual are subject to change without prior notice.
- All rights reserved. No part of this manual may be reproduced in any form without Yokogawa's written permission.
- Yokogawa makes no warranty of any kind with regard to this manual, including, but not limited to, implied warranty of merchantability and fitness for a particular purpose.
- If any question arises or errors are found, or if any information is missing from this manual, please inform the nearest Yokogawa sales office.
- The specifications covered by this manual are limited to those for the standard type under the specified model number break-down and do not cover custom-made instruments.
- Please note that changes in the specifications, construction, or component parts of the instrument may not immediately be reflected in this manual at the time of change, provided that postponement of revisions will not cause difficulty to the user from a functional or performance standpoint.
- Yokogawa assumes no responsibilities for this product except as stated in the warranty.
- If the customer or any third party is harmed by the use of this product, Yokogawa assumes no responsibility for any such harm owing to any defects in the product which were not predictable, or for any indirect damages.



## NOTE

For FOUNDATION Fieldbus, PROFIBUS PA and HART protocol versions, please refer to manuals in the attached CD-ROM, in addition to this manual.

- The following safety symbol marks are used in this manual:



## WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**IMPORTANT**

Indicates that operating the hardware or software in this manner may damage it or lead to system failure.

**NOTE**

Draws attention to information essential for understanding the operation and features.

--- Direct current

## 1.1 For Safe Use of Product

For the protection and safety of the operator and the instrument or the system including the instrument, please be sure to follow the instructions on safety described in this manual when handling this instrument. In case the instrument is handled in contradiction to these instructions, Yokogawa does not guarantee safety. Please give your attention to the followings.

### (a) Installation

- The instrument must be installed by an expert engineer or a skilled personnel. The procedures described about INSTALLATION are not permitted for operators.
- In case of high process temperature, care should be taken not to burn yourself because the surface of body and case reaches a high temperature.
- The instrument installed in the process is under pressure. Never loosen the process connector bolts to avoid the dangerous spouting of process fluid.
- During draining condensate from the pressure detector section, take appropriate care to avoid contact with the skin, eyes or body, or inhalation of vapors, if the accumulated process fluid may be toxic or otherwise harmful.
- When removing the instrument from hazardous processes, avoid contact with the fluid and the interior of the meter.
- All installation shall comply with local installation requirement and local electrical code.

### (b) Wiring

- The instrument must be installed by an expert engineer or a skilled personnel. The procedures described about WIRING are not permitted for operators.
- Please confirm that voltages between the power supply and the instrument before connecting the power cables and that the cables are not powered before connecting.

### (c) Operation

- Wait 10 min. after power is turned off, before opening the covers.

### (d) Maintenance

- Please do not carry out except being written to maintenance descriptions. When these procedures are needed, please contact nearest YOKOGAWA office.
- Care should be taken to prevent the build up of drift, dust or other material on the display glass and name plate. In case of its maintenance, soft and dry cloth is used.

### (e) Explosion Protected Type Instrument

- Users of explosion proof instruments should refer first to section 2.4 (Installation of an Explosion Protected Instrument) of this manual.
- The use of this instrument is restricted to those who have received appropriate training in the device.
- Take care not to create sparks when accessing the instrument or peripheral devices in a hazardous location.

### (f) Modification

- Yokogawa will not be liable for malfunctions or damage resulting from any modification made to this instrument by the customer.

## 1.2 Warranty

- The warranty shall cover the period noted on the quotation presented to the purchaser at the time of purchase. Problems occurred during the warranty period shall basically be repaired free of charge.
- In case of problems, the customer should contact the Yokogawa representative from which the instrument was purchased, or the nearest Yokogawa office.
- If a problem arises with this instrument, please inform us of the nature of the problem and the circumstances under which it developed, including the model specification and serial number. Any diagrams, data and other information you can include in your communication will also be helpful.

- Responsible party for repair cost for the problems shall be determined by Yokogawa based on our investigation.
- The Purchaser shall bear the responsibility for repair costs, even during the warranty period, if the malfunction is due to:
  - Improper and/or inadequate maintenance by the purchaser.
  - Failure or damage due to improper handling, use or storage which is out of design conditions.
  - Use of the product in question in a location not conforming to the standards specified by Yokogawa, or due to improper maintenance of the installation location.
  - Failure or damage due to modification or repair by any party except Yokogawa or an approved representative of Yokogawa.
  - Malfunction or damage from improper relocation of the product in question after delivery.
  - Reason of force majeure such as fires, earthquakes, storms/floods, thunder/lightening, or other natural disasters, or disturbances, riots, warfare, or radioactive contamination.













































































