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JUXTA F Series Instruction Manual

Model FF1A/V P/E Transducer

1. INSPECTION

This instrument has been thoroughly tested at the factory before shipment. However, when you receive it, visually inspect it for damage and check the accessories.

- 1.1 Model number and specification check Check to see if the model number and specification on the nameplate attached to the front cover of the transducer are as ordered by you.
- 1.2 The contents of the instruction manual This instruction manual provides instructions on how to mount, wire externally and maintain the P/E transducer.

GENERAL

This instrument receives a pneumatic signal of 0.2 to 1.0 kgf/cm and converts it into an isolated DC voltage or current signal.
Accessories: Mounting block 2

sories: Mounting block
Tag number label
Mounting screw
M4

3. MOUNTING METHOD

JUXTA signal conditioners can be mounted on racks, walls or DIN rails.

3.1 Rack mounting

Use a panel (FRK-16) and install it on an angle as shown in Fig.1. This is a convenient method for high density mounting of the transducers on a 19-inch rack panel. (See Fig. 7.)

3.2 Wall mounting

Use the panel (FRK-16) to mount the transducer as shown in Fig. 2 or directly mount it on to a wall mount bracket. (See Figs. 7 and 8 for mounting dimensions.)

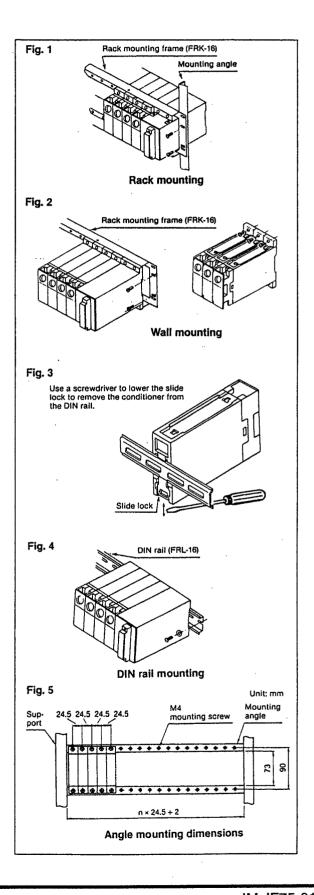
3.3 DIN rail mounting

Insert a DIN rail into the upper section of the DIN rail groove on the rear of the transducer and fix the rail with the slide lock at the lower part of the transducer as shown in Figs. 3 and 4.

3.4 Angle mounting

If the transducer is mounted without using the panel (FRK-16), refer to Fig. 5 for mounting dimensions.

3.5 Mounting block installation and removal Insert a mounting block into the transducer groove as shown in Fig. 6 and slide it until it is fixed with the stopper. To remove it, lift up the mounting block stopper with a screwdriver.



4. EXTERNAL WIRING

Wires can be connected to terminals by opening the transducer terminal cover. It is recommended that very flexible twisted wires be used for wiring, and good and reliable round crimp-on terminals (JIS C2805) be used.

4.1 Signal cable

Nominal cross-sectional area of conductor: 0.5 to 0.75 mm

Example of suitable cable:

Twisted vinyl cord (VSF) (JIS C 3306)

4.2 Power cable

Nominal cross-sectional area of conductor: 1.25 to 2.00 mm

Example of suitable cable: Twisted 600V vinyl cord (IV) (JIS C 3307)

4.3 Wiring

①See Fig. 9 for the terminal arrangement. ②Connect transducer output signal cable to its terminals 4(+) and 5(-).

3 Connect 24V DC power cable to transducer terminals 6(+) and 7(-). (See Fig. 10.)

5. ITEMS TO BE CHECKED BEFORE TURNING THE POWER SWITCH ON

(1) Make sure that 24V DC power cable of the transducer is connected with the correct polarities (+) and (-).

②Confirm that the external wiring to the

terminal board is correct.

3Check that the mounting conditions; ambient temperature, humidity, dust and vibration are suitable (e.g. within specification). Confirm the above items before turning on the power supply. The transducer needs 5 minutes warmup to meet its specified accuracy levels.

6. MAINTENANCE

(Caution)

Carry out the following calibration after warming up the transducer for more than 5 minutes.

6.1 Calibration equipment

·Pneumatic pressure standard

(Yokogawa model 2656 or equivalent)

·Voltmeter

(Yokogawa model 2502A or equivalent)

•Precision resistor (250 Ω ±0.01%, 1W) 1 (in case of current output)

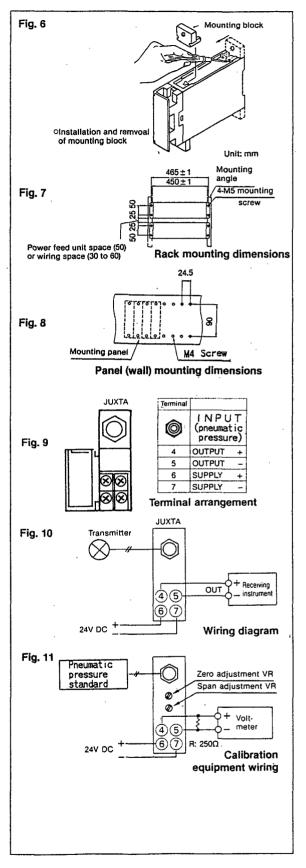
6.2 Calibration

(DConnect each unit of equipment as shown in

Fig. 11.

②Input/output characteristic check Use a pneumatic pressure standard to apply input pneummatic signals of 0, 25, 50, 75 and 100% to the transducer. Make sure that the corresponding transducer outputs are 0, 25, 50, 75 and 100% of output span respectively and are within an accuracy rating range.

*If the output signal is out of the specified accuracy, adjust the span adjuster and zero adjuster on the front face of the instrument.



Subject to change without notice for grade up quality and performance.

