

## 1. INSPECTION

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

### 1.1 Model number and specification check

Check to see the model number and specifications on the nameplate attached to the front cover of the transmitter are as ordered.

### 1.2 The contents of the instruction manual

This instruction manual provides instructions on mounting, external wiring and maintenance.

## 2. GENERAL

This instrument receives contact pulse, voltage pulse or current pulse from the field, and converts it into isolated DC current or voltage signal.

Accessories:

Mounting block	2
Tag number and range label	1 each
Mounting screw M4	2

## 3. MOUNTING METHOD

JUXTA signal conditioners can be mounted on rack, wall or DIN rail.

### 3.1 Rack mounting

Use 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 transmitters on 19-inch rack panel. (See Fig. 6)

### 3.2 Wall mounting

Use panel (FRK-16) to mount the transmitter as shown in Fig. 2 or directly mount it on the wall. (See Figs. 6 and 7 for mounting dimensions.)

### 3.3 DIN rail mounting

Insert DIN rail into the upper section of DIN rail groove on the rear of the transmitter and fix the rail with the slidelock at the lower part of the transmitter as shown in Fig. 3.

### 3.4 Angle mounting

If single unit of transmitter is mounted, refer Fig. 5 for its mounting.

## 4. 2-WIRE TRANSMITTER POWER SUPPLY VOLTAGE SETTING

2-wire transmitter power supply voltage can be switched 12V/24V by changing internal jumper of transmitter (See Fig. 9).

2-wire transmitter power supply voltage 12V :

Short-circuit J1

2-wire transmitter power supply voltage 24V :

Short-circuit J2

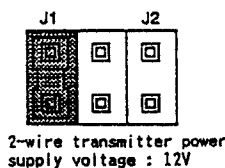


Fig.1 Rack Mounting

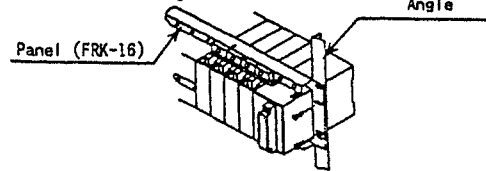


Fig.2 Wall Mounting

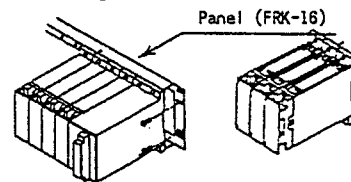


Fig.3 DIN Rail Mounting

Use screwdriver and lower the slidelock to remove the transmitter from DIN rail

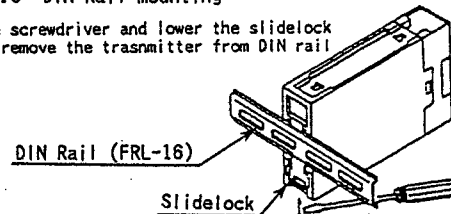


Fig.4 Mounting Block installation and removal

Insert mounting block into the transmitter groove as shown in Fig. 4 and slide it until it is locked with the stopper. To remove it, lift up the mounting block stopper with (-) screwdriver and slide it along the groove.

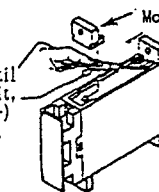


Fig.5 Angle Mounting Dimensions

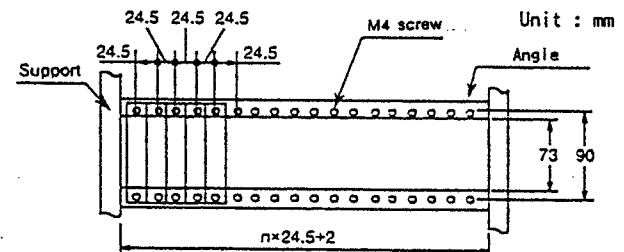


Fig.6 Rack Mounting Dimensions

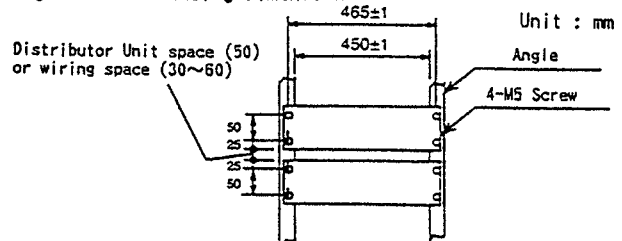
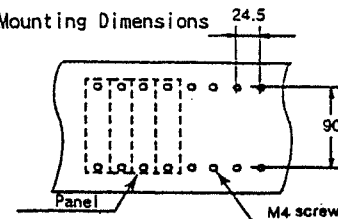


Fig.7 Panel Mounting Dimensions



## 5. LOAD RESISTANCE AND FILTER SETTING FOR CURRENT PULSE

Set by internal switch of transmitter (See Fig. 8)  
Switch 1~3 : Load resistance setting of current pulse  
Switch 4 : Filter setting

1	2	3	Resistance Value	4
ON	OFF	OFF	200Ω	ON
OFF	ON	OFF	500Ω	
OFF	OFF	ON	1KΩ	
ON	ON	OFF	143Ω	
ON	OFF	ON	167Ω	
OFF	ON	ON	500Ω	
ON	ON	ON	143Ω	

## 6. WIRING

- ① See Fig. 9 for terminal arrangement.
- ② Connect input signal cable from 2-wire transmitter to transmitter terminals 2(+) and 3(-). (See Fig. 10)
- ③ To receive current pulse, connect input signal cable to terminals 1(+) and 2(-). (See Fig. 10)
- ④ Connect transmitter output signal cable to terminals 4(+) and 5(-).
- ⑤ Connect 24V DC power cable to transmitter terminals 6(+) and 7(-). (See Fig. 10)

## 7. MAINTENANCE

### (Caution)

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

### 7.1 Calibration equipment

- Pulse Generator 1  
(Yokogawa-Hewlett-Packard Model 3314A or equivalent)
- Voltmeter 1  
(Yokogawa Model 7551 or equivalent)
- Precision Resistor, 250Ω ±0.01%, 1W 1  
(in case of current output)

### 7.2 Calibration

- ① Connect each equipment as shown in Fig. 10.
- ② Input/output characteristic check  
Apply pulse equivalent to 0%, 25%, 50%, 75%, 100% generated through Pulse Generator to transmitter. Check that corresponding transmitter outputs are 0, 25, 50, 75 and 100% respectively and are within accuracy rating range.

\*If output signal is out of tolerance, adjust it with Handy Terminal (JHT-100 or JHT200). For adjustment and parameter setting, refer parameter list and Instruction Manual of Handy Terminal.  
(JHT200 : IM JF81-02, JHT-100 : IM JF81-01)

Fig. 8

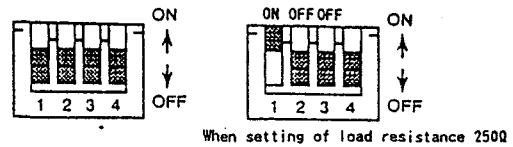


Fig. 9 Terminal Arrangement

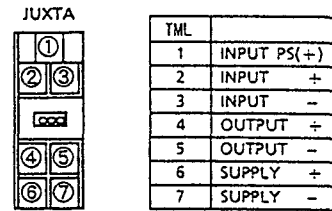


Fig. 10 Wiring

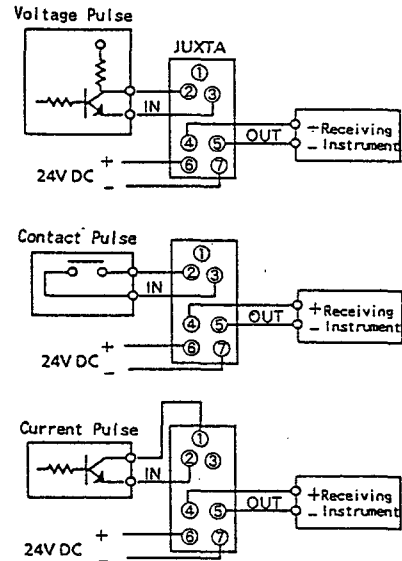


Fig. 11 Wiring of Calibration Equipment

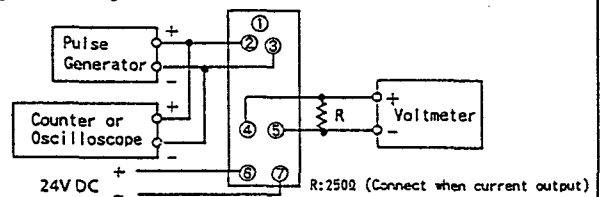
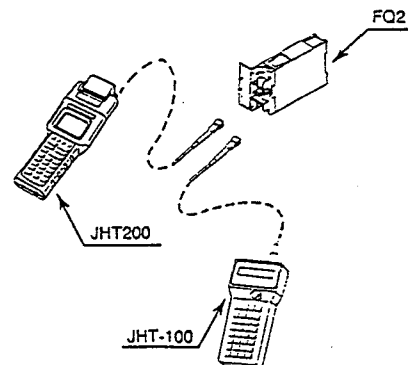


Fig. 12 Connection to Handy Terminal



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