1. PRECAUTION

Please read thorough this Manaual before use the instrument for correct handling. Please keep this Manual carefully after use. 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 Model number and specification check
Check to see model number and specifications
on the nameplate attached to the front face of
the instrument are as ordered.

② Contents of instruction manual
This instruction manual provides instructions on handling, external wiring and safety use of distributor.

2 GENERAL

This instrument used together with 2-wire transmitter to feed power to it receives 4~20mA DC signal and converts it into current or voltage signal.

Accessories: Mounting block
Tag number label
Mounting screw M4

Accessories: Mounting block
Accessories: Mounting

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 on 19-inch rack panel. (See Fig.7)

3.2 Wall mounting

Use panel (FRK-16) to mount the distributor as shown in Fig.2 or directly mount the single unit on the wall. (See Figs.6 and 8 for mounting dimensions.)

3.3 DIN rail mounting

Insert DIN rail into the upper section of the DIN rail groove on the rear of distributor and fix the rail with the slidelock at the base of distributor as shown in Figs.3 and 4.

3.4 Angle mounting

If single unit is mounted without using the panel (FRK-16), refer Fig.5 for its mounting,

panel (FRK-16), refer Fig.5 for its mounting. 3.5 Installation and removal of mounting block Insert mounting block into distributor 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 (-) screw-driver and slide it along the groove.

4. EXTERNAL WIRING

CAUTION Wiring should be done after ensuring power break of each cable.

Wires should be connected to M4 screw terminals after opening distributor terminal cover as shown in Fig.10. For wiring, flexible twisted wires and good contact of durable round crimp-on terminals are recommended to be used.

• Signal wiring cable should has more than 0.5mm² and power cable should has more than 1.25mm² of nominal cross-sectional area of conductor.

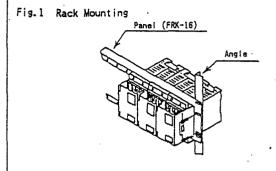


Fig. 2 Wall Mounting

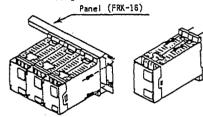


Fig. 3 DIN Rail Mounting

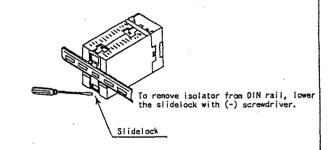


Fig. 4 DIN Rail Mounting

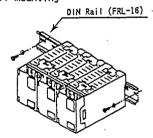
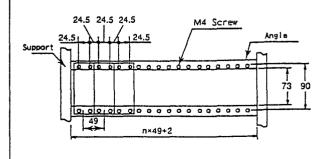


Fig. 5 Angle Mounting Dimension

Unit: mm



4.1 Wiring

① See Fig.9 for terminal arrangement. ② Connect 4~20mA DC signal cable from transmitter to distributor terminals 4(+), 7(-). (See Fig. 10).

Also, connect it to 7(+), 8(-) when use of external power supply. (See Fig.11)

③ Connect distributor output signal cable to its terminals 11(+) and 12(-).
④ Connect 85∼265∀ AC or 24∀ DC power cable to distributor terminals 14(L+), 15(N-)

and 16(G). (See Fig.10)
NOTE: Apart wiring of power and input/output cables from noise source. Otherwise, accuracy may not be warranted.

5. INSTALLATION AND HANDLING

① Aviod installation in such environments as shock, vibration, corrosive gas, dust, water, oil, solvent, direct sunlight, radiation, powerful electric and magnetic fields.

2 In order to protect distributor from inducement of thunder surges in power and signal cables, use arrester between distributor and equipment installed in the field.

6. SAFETY USE

Following caution for safety should be taken for handling of instrument. We are not responsible for damage incurred by use contrary to caution.

• Following items should be checked when turing power on. Use of instrument by ignoring the

specifications may cause overheat or burning.

(a) Voltage of power supply and input value
be applied to the instrument should meet with required specifications.

(b) External wiring to terminals should be connected correctly. (See preceding Article 4)

• Do not use the instrument in such dangerous places where exist inflammable and explosive gas or steam.

♦ In case of AC power supply, high voltage of 85~264V AC would be applied to 14 and 15 terminals during power on as shown in Fig. 10. Do not touch terminals.

7. CALIBRATION

Carry out the following calibration after warming up the instruments for more than 10~15 minutes.

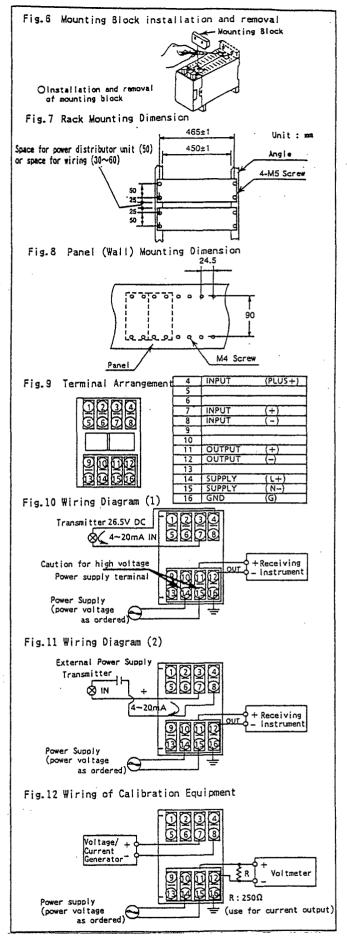
7.1 Calibration equipment

 Voltage/Current Generator (Yokogawa Model 2553 or equivalent) Voltmeter

(Yokogawa Model 7552 or equivalent) Precision resistor 2500±0.01% 1W

(Use for current output)

7.2 Calibration ① Connect each equipment as shown in Fig.12. ② Input/output characteristics check Apply input signal equivalent 0, 25, 50, 75, 100% of span to distributor through Voltage/Current Generator. Check through Voltmeter the corresponding distributor outputs are 0, 25, 50, 75 and 100% respectively and are within accuracy rating range. (Connect R in case of current output).



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

