#### 1. PRECAUTION

Please read thorough this Manual 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 the 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
the instrument.

## 2. GENERAL

This compact plug-in type distributor for use with 2-wire transmitter supplies power to transmitter. It receives 4~20mA DC signal from transmitter and converts it into unified output signal. It has features of AC/DC use power supply, isolated dual outputs, selective functions of 1~5V DC/4~20mA DC for Output-1 and power supply to transmitter ON/OFF through one touch select switch. (See Fig.2) Accessories:

#### 3. MOUNTING METHOD

JUXTA M Series signal conditioners can be mounted on wall or DIN rail.

#### 3.1 Wall mounting

Unlock stoppers and remove the distributor from socket as shown in Fig.1. Then, fix the socket on the wall. Take installation gap as shown in Fig.4. (Refer Fig.4 for mounting dimensions).

3.2 DIN rail mounting

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

Use furnished spacer and take 5mm gap between distributors.

3.3

If wiring duct is used, install it aparting more than 20mm from top face of main body.

#### 4. EXTERNAL WIRING

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

See Fig.5 for terminal arrangement and Fig.6 for wiring.

Wires should be connected to M3.5 screw terminals. For wiring, flexible twisted wires and good contact of durable round crimp—on terminals are recommended to be used.

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

4.1 Wiring

① Connect input signal cable to distributor terminals 5(-) and 6(+).

② Connect Output-1 signal cable to 1(+), 2(-) and Output-2 signal cable to 10(+), 11(-).

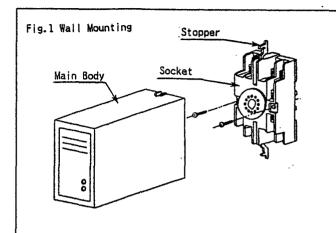
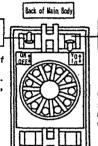


Fig. 2 Select Switch

ON/OFF select switch to supply voltage to transmitter

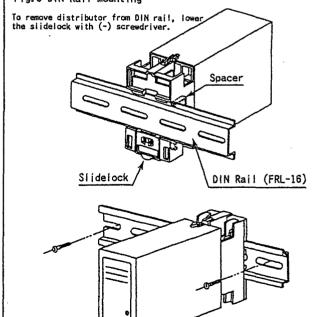
Turn to ON when use of transmitter requiring power supply (24V DC). If it is not required, turn switch to OFF. When shipment, switch is set at ON side.



Output-1 Vo/lo select switch

Turn this switch to Yo side to take out Output-I voitage I~5V DC. Turn this switch to lo side to take out current output 4~20mA DC. When shipment, switch is set at lo side. Set switch at Yo side in case no use of Output-I and leave open output terminals I and 2.

Fig. 3 DIN Rail Mounting



③ Connect power cable to distributor terminals 7(L+), 8(N-), 9(GND).

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 instrument from inducement of thunder surges in power and signal cables by thunder fall, 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. CAUTION

Be sure to lock the stoppers (top and bottom) after inserting the main body into socket.

Following items should be checked when turning power on. Use of instrument ignoring 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.

### 7. MAINTENANCE

10∼15 minutes warm up is required to satisfy the specifications of the instrument.

7.1 Calibration Equipment

·Voltage/Current Generator (Yokogawa Model 7651 or equivalent) Voltmeter 1 (Yokogawa Model 7562 or equivalent) •Precision Resistor 2500 ±0.01% 1W

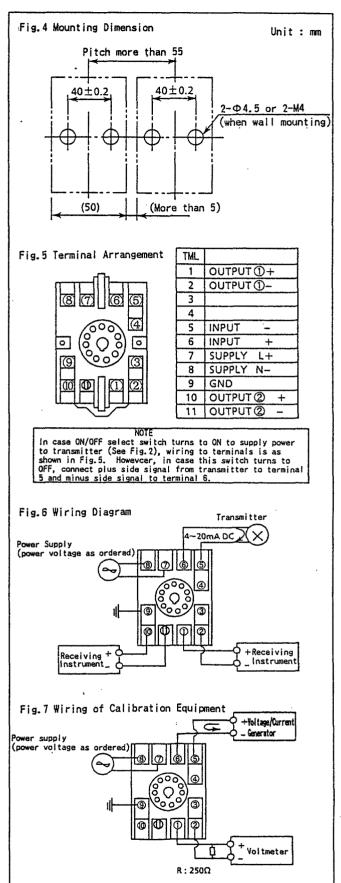
7.2 Calibration

① Connect each equipment as shown in Fig.7. ② Input/output characteristics check Input/output characteristics check Turn OFF of power ON/OFF select switch to transmitter (See Fig. 2) and apply current input signals equivalent 0, 25, 50, 75, 100% of span to distributor through voltage/current generator.

Check that corresponding distributor outputs are 0, 25, 50, 75 and 100% respectively and are within accuracy rating range.
Use R shown in Fig.7 for current output only.

If output signal is out of tolerance, adjust it through span and zero adjustment trimmer on front face of distributor.

In case calibration is done at either one side of Output-1 or Output-2, calibration of other output side is made simultaneously. Carry out calibration at output side presently used.



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

