Instruction Manual

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.

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

2. GENERAL

This instrument receives RTD resistance change and converts it into isolated current or voltage signal.

Accessories: Mounting block
Tag number and range label 1 each
Mounting screw M4 4

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 transmitter 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 the single unit on the wall. (See Figs.4 and 7 for mounting dimensions.)

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

3.4 Angle mounting
If the transmitter is mounted without using the panel (FRK-16), refer Fig.5 for its mounting dimension.

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

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 transmitter terminal cover as shown in Fig.9. For wiring, flexible twisted wires and good contact of durable round crimpon terminals (JIS C2805) 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.

4.1 Wiring

① See Fig.8 for terminal arrangement. ② Connect signal cable from RTD to transmitter terminals 3(A), 7(A), 4(B), 8(B).

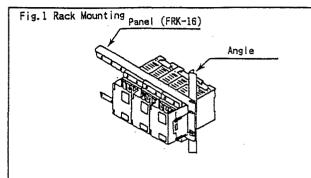


Fig. 2 Wall Mounting
Panel (FRK-16)

Fig. 3 DIN Rail Mounting

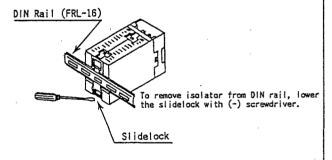


Fig. 4 Installation and removal of Mounting Block

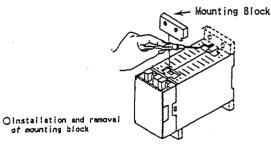
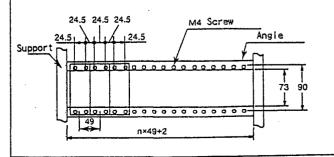


Fig. 5 Angle Mounting Dimension

Unit: mm



3 Connect transmitter output signal cable to its terminals 11(+) and 12(-).

When use of dual outputs, connect Output-2 signal cable to 9(+), 10(-).

⑤ Connect 85~265V AC or 24V DC power cable to transmitter terminals 14(L+), 15(N-)and 16(G). (See Fig.9)

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 transmitter from inducement of thunder surges in power and signal cables by thunder fall, use arrester between transmitter and equipment installed in the

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

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 on 14 and 15 terminals during power on as shown in Fig.9. 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

 6 Dial Variable Resistor (Yokogawa Model 2793-01 or equivalent)

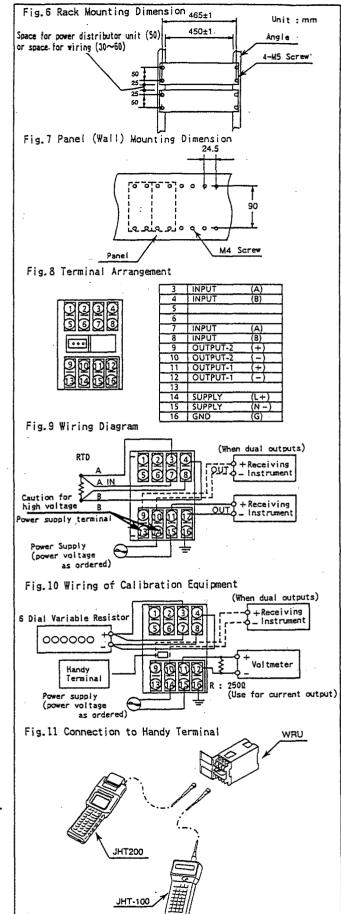
Voltmeter (Yokogawa Model 7551 or equivalent) Precision Resistor 2500 ±0.01% 1W (Use in case of current output)

7.2 Calibration

① Connect each equipment as shown in Fig.10. ② Input/output characteristics check Obtain resistance value equivalent 0, 25, 50, 75, 100% of span by referring Temperature/ Resistance Relationship Table according to measuring range. Apply obtained resistance value to transmitter through variable resistor. 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 through Handy Terminal (JHT-100 or JHT200). For adjustment, refer Instruction Manual of

Handy Terminal (JHT200: IM JF81-02E, JHT-100: IM JF81-01E)



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

