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 unit are as ordered.

1.2 Contents of the instruction manual This instruction manual provides instructions on mounting, external wiring and maintenance.

2. GENERAL

This soft variable type unit receives voltage or mV signal from transmitter and outputs isolated current or voltage signal providing optional relation between input and output by optional segmental line. There are 11 segmental points and they provide relation between input and output by %.

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

3.2 Wall mounting Use panel (FRK-16) to mount the unit 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 of DIN rail
groove on the rear of the unit and fix the rail
with the slidelock at the lower of the unit
as shown in Fig. 3.

3.4 Angle mounting

In case of single unit mounting, refer to Fig. 5 for its mounting

for its mounting.

3.5 Mounting block installation and removal Insert mounting block into the groove of the unit 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.

4. EXTERNAL WIRING

Open the terminal cover of the unit. Wire should connect to M4 screw terminal. Flexible twisted wires and durable round crimp—on terminals (JIS C2805) are recommended to be used.

Signal cable having more than 0.5mm² and power cable having more than 1.25mm² of nominal cross-sectional area of conductor are recommended.

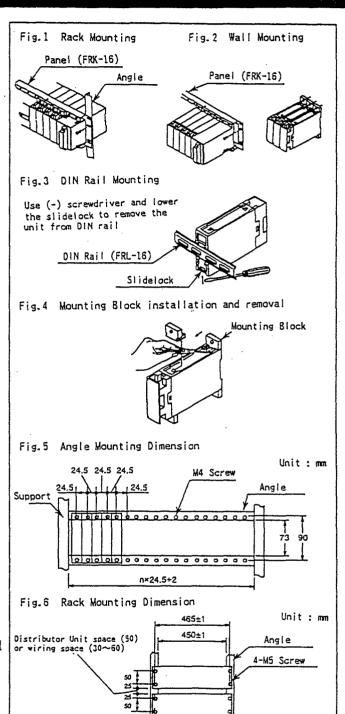


Fig. 7 Panel Mounting Dimension

Panel

M4 Screw

4.1 Wiring

① See Fig. 8 for terminal arrangement. ② Connect input voltage signal cable of the unit to its terminals 2(+) and 3(-). ③ Connect output signal cable of the unit to

its terminals 4(+) and 5(-).

④ Connect 24V DC power cable to terminals 6(+) and 7(-). (See Fig. 9)

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

1) Make sure that 24V DC power cable of the unit is connected to the correct polarities (+), (-).

2 Confirm that the external wiring to the terminal board is correct.

Check that the mounting, ambient temperature, humidity, dust and vibration are normal. Confirm the above items before turning the power The unit needs 5 minutes warmup to meet its specified accuracy level.

6. OPERATION CHECK

(Caution)

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

6.1 Calibration equipment

•Voltage/Current Generator (Yokogawa Model 7651 or equivalent)

·Voltmeter

(Yokogawa Model 7551A or equivalent)

① Connect each equipment as shown in Fig.10.
② Input/output characterist

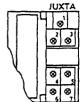
Input/output characteristic check Use Voltage/Current Generator and apply input signal equivalent 0, 25, 50, 75 and 100% of input span. Check that corresponding outputs are within specified accuracy rating range

for the respective output reference values.

If output signal is out of tolerance in case of ②, adjust it with Handy Terminal (JHT-100) or JHT200). For adjustment, refer Instruction Manuals of Handy Terminal.

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

Fig. 8 Terminal Arrangement



TML		
1		
_ 2	INPUT	+
3	INPUT	_]
4	OUTPUT	+
. 5	OUTPUT	-
6	SUPPLY	+
7	SUPPLY	-

Fig. 9 Wiring Diagram

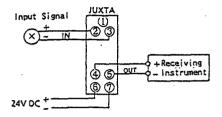


Fig. 10 Wiring of Calibration Equipment

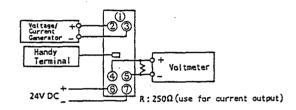
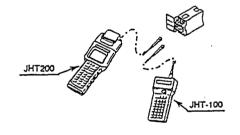
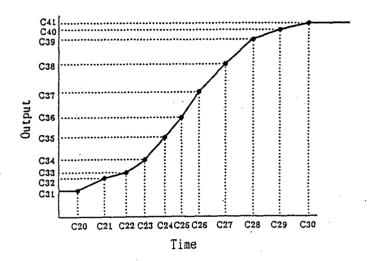


Fig. 11 Connection to Handy Terminal



7. SET VALUE INPUT THROUGH HANDY TERMINAL
Input range, segmental point can be changed through
Handy Terminal.
This unit provides optional relation between input
signal (X1) and output signal (Y) by optional
segmental line. There are 11 segmantal points and
they provide relation between input and output by %.
Set X axle (input) at fixed constant C20~C30
Set Y axle (output) at fixed constant C31~C41
Fixed constant (C20~C41) can be changed through
Handy Terminal.
Setup condition of segmental points:
-10%≦(C20~C41)≦110%
C20<C21<C22<C23<C24<C25<C26<C27<C28<C29
<C30
Input range is setup by ZERO, SPAN (B10, B11).
Set voltage corresponding 0% input on B10 and span
voltage on B11.



When input of below C2O, the output is limited at C31 When input of above C3O, the output is limited at C41

PARAMETER LIST

NO.	ITEM	TITLE DISPLAY	DATA DISPLAY
01	Model	MODEL	
02	Tag No.	TAG NO	16 Alphanumerics
03	Self Check	SELF CHK	Good or Error
A00	Display Item	DISPLAY	0000 00 BUO
A01	Input I	INPUT 1	000.0V/mV
A02	Output	OUTPUT	
A03	Status	STATUS	FF (Hexagonal 2 digits)
A04	Rev No.	REV NO	n.nnn (n : Rev No.)
A05	Load	LOAD	
A06	Input 2	INPUT 2	000.0V/mV
A07	Buffer 1	BUFFER 1	000.0%
80A	Buffer 2	BUFFER 2	
A09	Buffer 3	BUFFER 3	
B00	Set Item	SET	
801	Tag No.1	TAG NO.1	8 Alphanumerics (1st half 8 characters of Tag No.)
802	Tag No.2	TAG NO. 2	8 Alphanumerics (2nd half 8 characters of Tag No.)
B03	Comment 1	COMMENT 1	8 Alphanumerics
B04	Comment 2	COMMENT 2	8 Alphanumerics
807	Input Type *1	INP TYPE	Select from LL/L/H/HH
B10	Zero Point	ZERO	Numeric Data
811	Span	SPAN	Numeric Data
B12	Burnout *1	BURN	Select from OFF/ON
B13	Setup Error	SET ERR	GOOD/ERROR .
820	Program *2	PROGRAM	[Inter-company Setup Item]
B21	Program *2	PROGRAM	[[nter-company Setup [tem]
B48	Program *2	PROGRAM	[Inter-company Setup Item]
849	Program *2	PROGRAM	[[nter-company Setup [tem]
C00	Adjust Item	ADJUST	
C01	0% Output Adjust	OUT 0%	Numeric Data (±10.00)
C02	100% Output Adjust	OUT 100%	Numeric Data (±10.00)
C03	Wiring Resistance	WIRING R	RESET/EXECUTE
C04	Adjust *1	IAI AW	
C04 C05	0% input Adjust *2	IN 0% IN 100%	
Cub	100% input Adjust	114 100%	
C11		CONST	Numania Data
C11	Fixed Constant Fixed Constant	CONST	Numeric Data
<u> C12</u>	FIXEG CONSTAILT		Numeric Data
C40	Fixed Constant	CONST	Numeric Data
C41	Fixed Constant	CONST	Numeric Data
<u> </u>	LIVER COURTAILE	CONST	Manaric para

^{*1} Display only FX3□-FX *2 Display only. Don't use