#### 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 2 voltage or mV signals from transmitter and outputs isolated current or voltage signal by selecting higher one of 2 inputs.

#### Accessories:

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

### 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

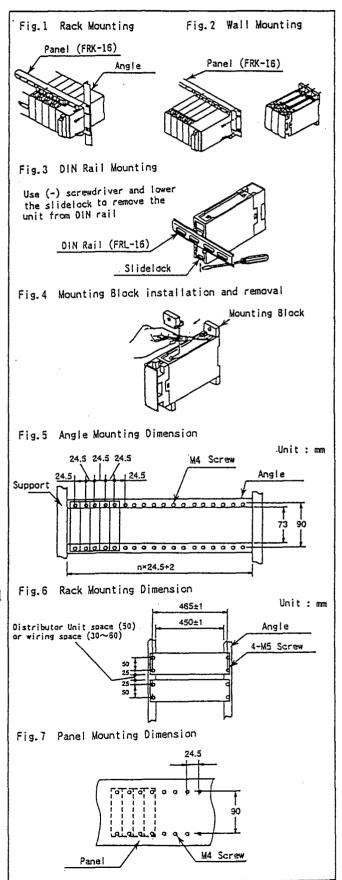
In case of single unit mounting, refer to Fig. 5 for its mounting.

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 0.5mm<sup>2</sup> and power cable having more than 1.25mm<sup>2</sup> of nominal cross-sectional area of conductor are recommended.



4.1 Wiring

4.1 Wiring
① See Fig. 8 for terminal arrangement.
② Connect Ch1 input voltage signal cable to terminals 2(+), 3(-) and Ch2 input voltage cable to 1(+), 3(-) of the unit.
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.

3 Check that the mounting, ambient temperature, humidity, dust and vibration are normal. Confirm the above items before turning the power on. 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)

(Yokogawa Model 7551A or equivalent)

6.2 Check method

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

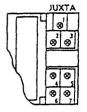
Use Voltage/Current Generator and make one input below 0% and apply signal equivalent 0, 25, 50, 75, 100% of input span to another input (for check). Check that corresponding outputs are within specified accuracy rating range for respective output reference values.

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)

7. SET VALUE INPUT THROUGH HANDY TERMINAL Input range can be changed through Handy Terminal. Make Handy Terminal at SET mode, and set voltage corresponding 0% input on B10 and span voltage on B11.

Fig. 8 Terminal Arrangement



TML			·
1			INPUT (ch2) +
2	INPUT (ch 1)	+	
3	INPUT (ch 1)	-	INPUT (ch2) -
4	OUTPUT	+	
5	OUTPUT	-	
_6	SUPPLY	+	
7	SUPPLY	_	

Fig. 9 Wiring Diagram

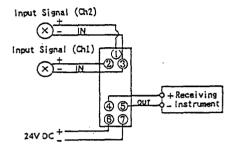


Fig. 10 Wiring of Calibration Equipment

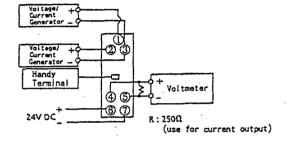
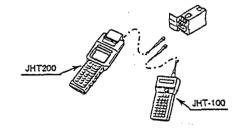


Fig. 11 Connection to Handy Terminal



# PARAMETER LIST

NO.	ITEM	TITLE DISPLAY	DATA DICOLAY
01	Model	MODEL	DATA DISPLAY
02	Tag No.	TAG NO	
03	Self Check	SELF CHK	16 Alphanumerics
A00	Display Item	DISPLAY	Good or Error
A01	laput l	INPUT I	
A02	Output	OUTPUT	000.0V/mV
A03	Status	STATUS	
A04	Rev No.	REV NO	FF (Hexagonal 2 digits)
A04			n.nnn (n : Rev No.)
A06	Load Input 2	LOAD INPUT 2	
A07			000.0V/nV
A08	Butter 1	BUFFER 1	
A09	Buffer 2 Buffer 3	BUFFER 2	000.0%
B00	Set Item	BUFFER 3 SET	000.0%
B01		TAG NO.1	0 1
B02	Tag No.1 Tag No.2		8 Alphanumerics (1st half 8 characters of Tag No.)
B03		TAG NO. 2	8 Alphanumerics (2nd half 8 characters of Tag No.)
B03	Comment 1	COMMENT 1 COMMENT 2	8 Alphanumerics
B07	Comment 2		8 Alphanumerics
	Input Type *1	INP TYPE	Select from LL/L/H/HH
810 B11	Zero Point	ZERO	Numeric Data
812	Span	SPAN BURN	Numeric Data
	Burnout *1		Select from OFF/ON
B13	Setup Error	SET ERR	GOOD/ERROR
820	Program *2 Program *2	PROGRAM	Inter-company Setup [tem]
B21	Program *2 ≣	PROGRAM	[Inter-company Setup [tem]
<u> </u>		<u>≡</u>	= -
B48	Program *2	PROGRAM	[Inter-company Setup Item]
849	Program *2	1 110 00117 1111	[Inter-company Setup Item]
C00	Adjust Item	ADJUST	Vi
C01	0% Output Adjust	OUT 0%	Numeric Data (±10.00)
C02	100% Output Adjust	OUT 100% WIRING R	Numeric Data (±10.00)
C03	Wiring Resistance	WIKING K	RESET/EXECUTE
	Adjust *1	IN OW	
C04	0% input Adjust *2		
C05	100% input Adjust *2	IN 100%	
C11	Fixed Constant	CONST	Numeric Data
C12	Fixed Constant	CONST	Numeric Data
		=	
C40	Fixed Constant	CONST	. Numeric Data
C41	Fixed Constant	CONST	Numeric Data

<sup>\*1</sup> Display only FX3□-HS \*2 Display only. Don't use

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