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.

This soft variable type unit receives voltage or mV signal from transmitter. It operates as normal transmitter for input between upper and lower limits. However, this unit outputs isolated current or voltage signal equivalent limit value for over limit input. Accessories:

Mounting block Tag number and range label 1 each 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

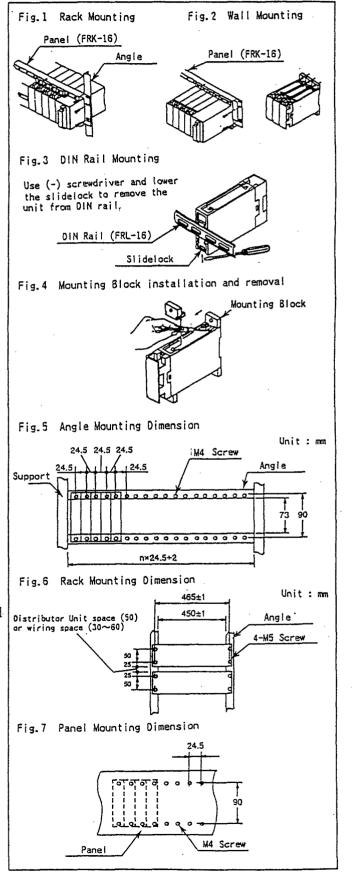
In case of single unit mounting, refer to Fig. 5 for its mounting.

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



4.1 Wiring

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.

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)

·Voltmeter

(Yokogawa Model 7551A or equivalent)

6.2 Check method ① Connect each equipment as shown in Fig.10.
② Input/output characteries

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

1

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)

7. SET VALUE INPUT THROUGH HANDY TERMINAL

Input range, upper and lower limit values can be changed through Handy Terminal.

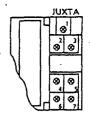
Setup range of limit values:

Upper limit=0.0~100.0% (C11=0.0~100.0%)

Lower limit=0.0~100.0% (C12=0.0~100.0%)

However, upper limit is output when upper limit lower limit Input range is setup by ZERO, SPAN (B10, B11). Set voltage corresponding 0% input on B10 and span voltage on B11.

Fig. 8 Terminal Arrangement



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

Fig.9 Wiring Diagram

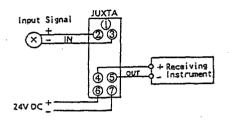


Fig. 10 Wiring of Calibration Equipment

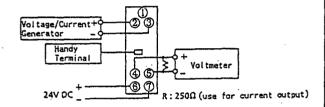
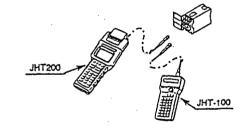


Fig. 11 Connection to Handy Terminal



PARAMETER LIST

NO.	ITEM	TITLE DISPLAY	DATA DISPLAY
01	Model	MODEL	UNIA DISPLAT
02	Tag No.	TAG NO	16 Alphanumerics
03	Self Check	SELF CHK	Good or Error
A00	Display Item	DISPLAY	good of circle
A01	Input 1	INPUT 1	
A02	Output	OUTPUT	000.0%
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	
80A	Buffer 2	BUFFER 2	
A09	Buffer 3	BUFFER 3	
800	Set Item	SET	
801	Tag No.1	TAG NO. 1	8 Alphanumerics (1st half 8 characters of Tag No.)
B02	Tag No.2	TAG NO. 2	8 Alphanumerics (2nd half 8 characters of Tag No.)
B03	Comment 1	COMMENT I	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
B11	Span	SPAN	Numeric Data
B12	Burnout *1	BURN	Select from OFF/ON
813	Setup Error	SET ERR	GOOD/ERROR
B20	Program *2		[Inter-company Setup Item]
821	Program *2	PROGRAM	Inter-company Setup Item]
	=	=	= = = = = = = = = = = = = = = = = = = =
B48	Program *2	PROGRAM.	[[nter-company Setup [tem]
849	Program *2	PROGRAM	[Inter-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
	Adjust *1		
C04	0% input Adjust *2	IN 0% .	
C05	100% input Adjust	IN 100%	
	*2	001/0 7	
C11	Fixed Constant	CONST	Numeric Data
C12	Fixed Constant	CONST	Numeric Data
040	F: ::= 1 C	TONCT	
C40	Fixed Constant	CONST	Numeric Data
C41	Fixed Constant	I CONST	Numeric Data

^{*1} Display only FX3 —-LM *2 Display only. Don't use

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

