Instruction Manual

WX1□-FP (Voltage Input·Soft Variable Type)
WX2□-FP (Voltage Input·Soft Variable Type)
WX3□-FP (mV Input·Soft Variable Type)
Programmable Unit

JUXTA

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

(WX1□, WX3□)
This soft variable type unit receives 2 voltage or mV signals from transmitter and outputs isolated current or voltage signal by making calculations on 2 inputs. (After delivery, programs are freely made out and decide function).

(WX2□)
This soft variable type unit receives 1 voltage signal and 1 contact input signal from transmitter and outputs isolated current or voltage signal by making calculations on 2 inputs. (After delivery, programs are freely made out and decide function).

Accessories : Mounting block 2
    Tag number and range label ..... 1 each
    Mountig 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 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 $0.5mm^2$ and power cable having more than $1.25mm^2$ of nominal cross-sectional area of conductor are recommended.
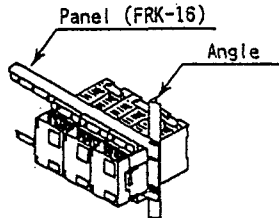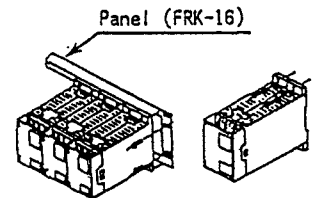

Fig.1 Rack Mounting — Panel (FRK-16), Angle

Fig.2 Wall Mounting — Panel (FRK-16)

Fig.3 DIN Rail Mounting
Use (-) screwdriver and lower the slidelock to remove the unit from DIN rail
Slidelock
DIN Rail (FRL-16)
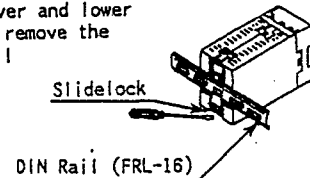
Fig.4 Mounting Block installation and removal
Mounting Block
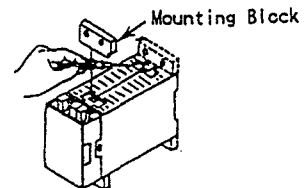
Fig.5 Angle Mounting Dimension
Unit : mm
24.5 24.5 24.5
24.5 24.5
Support
M4x0.7 Screw
Angle
73 90
n×24.5+2
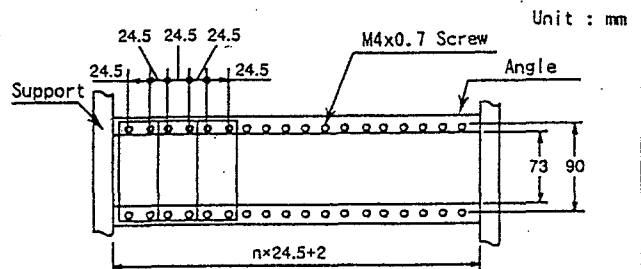
Fig.6 Rack Mounting Dimension
Unit : mm
465±1
450±1
Distributor Unit space (50) or wiring space (30~60)
Angle
4-M5 Screw
50 25 25 50

Fig.7 Panel Mounting Dimension
24.5
90
Panel
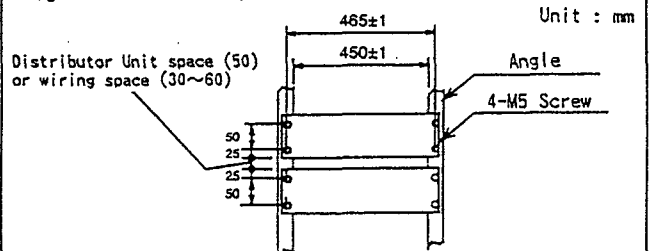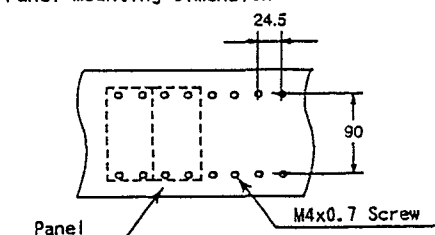M4x0.7 Screw

4.1 Wiring
① See Fig. 8 for terminal arrangement.
② Connect Ch1 input signal cable to terminals 7(+), 8(-) and Ch2 input cable to 3(+), 4(-) of the unit.
③ Connect output signal cable of the unit to its terminals 11(+) and 12(-).
④ In case of use AC power, connect AC power cable to terminals 14(L), 15(N), 16(G).
In case of use DC power, connect DC power cable to terminals 14(+), 15(-).
(See Fig. 9 & 10)

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. PROGRAMMING THROUGH HANDY TERMINAL
This unit performs programming through Handy Terminal and decides function.
When shipment, the unit is set as normal transmitter since it includes input (ch1)=output programming.
Also, input (Ch2) of WX2□ is contact signal.
As for details of Handy Terminal (JHT200 or JHT-100, refer Instructiion Manuals (IM JF81-02E for JHT200 and IM JF81-01E for JHT-100).
6.1 Programming, fixed constant and zero/span areas
Programming area is B20~B49, fixed constant area is C11~C41 and zero/span area is B10, B11.
(Refer Parameter List)
Programs can enter maximum 30 steps in B20~B49 and they should be written closely forward.
Instruction of NOP should be written following next step of alreay written program and it should be filled upto B49. Program is carried out orderly B20→B21→B22 →→→B49.
Input range is set by ZERO, SPAN (B10, B11).
Set voltage corresponding 0% input on B10 and span voltage on B11.

Fig.8 Terminal Arrangement

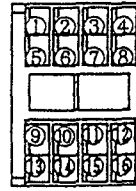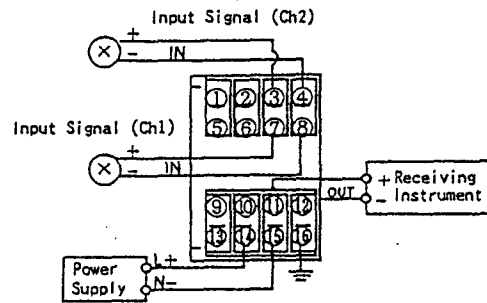| TML		
3	INPUT (ch2)	+
4	INPUT (ch2)	–
5		
6		
7	INPUT (ch1)	+
8	INPUT (ch1)	–
9		
10		
11	OUTPUT	+
12	OUTPUT	–
13		
14	SUPPLY	L+
15	SUPPLY	N–
16	GND	

Fig.9 Wiring Diagram (WX1□, WX3□)
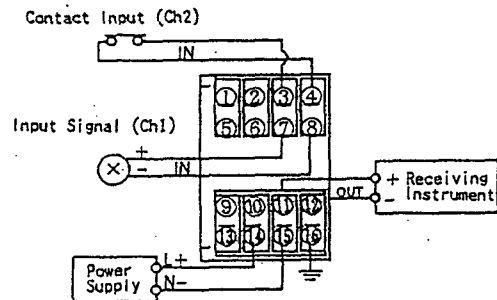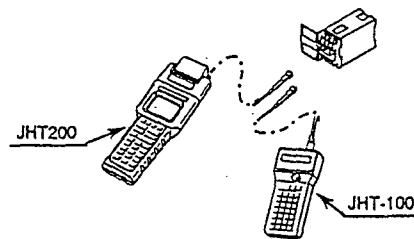

Fig.10 Wiring Diagram (WX2□)

Fig.11 Connection to Handy Terminal

JHT200

JHT-100

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	
A01	Input 1	INPUT 1	□□□□.□V/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	□□□□.□V/mV
A07	Buffer 1	BUFFER 1	□□□.□%
A08	Buffer 2	BUFFER 2	□□□.□%
A09	Buffer 3	BUFFER 3	□□□.□%
B00	Set Item	SET	
B01	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 1	8 Alphanumerics
B04	Comment 2	COMMENT 2	8 Alphanumerics
B07	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
B13	Setup Error	SET ERR	GOOD/ERROR
B20	Program	PROGRAM	「Inter-company Setup Item」
B21	Program	PROGRAM	「Inter-company Setup Item」
≡	≡	≡	≡
B48	Program	PROGRAM	「Inter-company Setup Item」
B49	Program	PROGRAM	「Inter-company Setup Item」
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 Adjust *1	WIRING R	RESET/EXECUTE
C04	0% Input Adjust *2	IN 0%	
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

*1 Display only WX3□-FP
*2 Display only. Don't use

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