JUXTA F Series General Specification

Model FX3□-FP (Variable software type) Programmable Unit

JUXTA

1. GENERAL

This is a variable type computing unit which accepts two mV signal inputs from various converters and outputs each 2-point input computed result (after delivery, the function is determined by freely creating programs by the customer using the handy terminal [JHT-100]), as an isolated DC voltage or current signal.

2. SPECIFICATIONS

Model No.	FX3A-FP, FX3V-FP
Input signal	mV signal: 2 points
Measuring range	−2 to 10 mV (There is accuracy limitation for spans of more than 3 mV and less than 10 mV.) −10 to 50 mV (For span of more than 10 mV) −50 to 250 mV (For span of more than 50 mV) −100 to 1250 mV (For span of more than 250 mV) (*1)
Input resistance	1 MΩ (At power failure: More than 3 KΩ)
Output signal	4 to 20mA, 2 to 10mA, 1 to 5mA, 0 to 20mA, 0 to 16mA, 0 to 10mA or 0 to 1mA DC 0 to 10mV, 0 to 100mV, 0 to 1V, 0 to 10V, 0 to 5V, 1 to 5V or −10 to +10V DC
Basic accuracy	±0.2% of measuring span (Only when input (%) = Output (%))
Signal insulation	Between input signal and output signal/power supply circuits, and between output signal and power supply circuits
Insulation resistance	Between input signal and output signal/power supply circuits, and Between output signal and power supply circuits: 100 MΩ/500 V DC
Dielectric strength	Between input signal and output signal/power supply circuits: 1500 V AC/min Between output signal and power supply circuit: 500 V AC/min
Power supply voltage	24 V DC ± 10%
Ambient temperature/humidity	0 to 50°C (32 to 122°F) and 5 to 93% relative humidity (No condensation)
Effect of ambient temperature	±0.2% of span for 10°C (50°F) change
Effect of power supply voltage	±0.2% of span for 24 V DC ±10% variation
Power consumption	24 V DC, 56 mA (Voltage output) and 24 V DC, 78 mA (Current output)
Dimensions	72 (2.83″) H × 24 (0.94″) W × 127 (5.00″) D mm (inch)
Weight	Approx. 130 g
Accessories	Tag number label : 1 sheet Mounting blocks: 2 pcs.

Specify the following when ordering:
(*1) Measuring range from □ to □ mV
Range accuracy for span of less than 10 mV: 0.2× 10/(mV input span) %

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MODEL

SOFTWARE TYPE
3: Variable Type

OUTPUT
A: Current
V: Voltage

INPUT SIGNAL
1: Voltage signal

OUTPUT SIGNAL

A: 4~20mA DC	1: 0~10mV DC
B: 2~10mA DC	2: 0~100mV DC
C: 1~5mA DC	3: 0~1V DC
D: 0~20mA DC	4: 0~10V DC
E: 0~16mA DC	5: 0~5V DC
F: 0~10mA DC	6: 1~5V DC
G: 0~1mA DC DC	7: −10~+10 DC
Z: Specify current. (30mA max.)	0: Specify voltage. (−10V~+10V)

Ordering Information

Input Measuring Range		
Range name	Allowable min. span	Allowable Measuring Range
HH	250 mV	−100 ~ 1250 mV
H	50 mV	−50 ~ 250 mV
L	10 mV	−10 ~ 50 mV
LL	3 mV	−2 ~ 10 mV
However, accuracy of less than 10 mV span is $0.2\% \times \frac{10\ \text{mV}}{\text{Input span (mV)}}$ (%)		

Recommended Input Range	
Voltage signal	0 ~ 10 mV DC 0 ~ 100 mV DC 0 ~ 1V DC

OUTPUT RESISTANCE AND LOAD RESISTANCE

Output Signal	Load Resistance	Output Impedance
4 to 20mA DC	0 to 750Ω	5MΩ or more
2 to 10mA DC	0 to 1500Ω	
1 to 5mA DC	0 to 3000Ω	
0 to 20mA DC	0 to 750Ω	
0 to 16mA DC	0 to 900Ω	
0 to 10mA DC	0 to 1500Ω	
0 to 1mA DC	0 to 15kΩ	

Output Signal	Load Resistance	Output Impedance
0 to 10mV DC	100kΩ or more	100Ω or less
0 to 100mV DC		
0 to 1V DC	2kΩ or more	1Ω or less
0 to 5V DC		
1 to 5V DC		
0 to 10V DC	10kΩ or more	
−10 to +10V DC		