JUXTA F Series General Specification

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

NTXUL

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

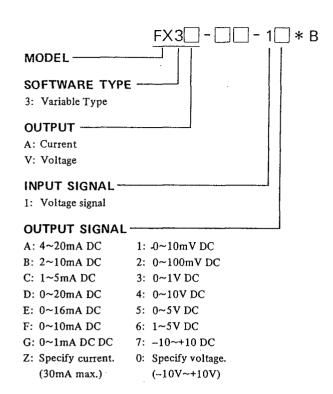
Model No.	FX3A-FP, FX3V-FP		
Input signal	mV signal: 2 points		
Measuring range	-2 to 10 mV (There is accuracy limitation for spans of more than 3 mV and less than 10 mV.) -10 to 50 mV (For span of more than 10 mV) -50 to 250 mV (For span of more than 50 mV) -100 to 1250 mV (For span of more than 250 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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Ordering Information					
Input Measuring Range					
Range name	Allowable min. span	Allowable Measuring Range			
нн	250 mV	−100 ~ 1250 mV			
Н	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					
Vol	tage signal	0 ~ 10 mV DC 0 ~ 100 mV DC 0 ~ 1V DC			

OUTPUT RESISTANCE AND LOAD RESISTANCE

Output Signal	Output Signal Load Resistance		
4 to 20mA DC	0 to 750Ω		
2 to 10mA DC	0 to 1500Ω		
1 to 5mA DC	0 to 3000Ω		
0 to 20mA DC	0 to 750Ω	5MΩ or more	
0 to 16mA DC	0 to 900Ω	1	
0 to 10mA DC	0 to 1500Ω	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	TOOKSE OF MOTE	
0 to 1V DC		1Ω or less
0 to 5V DC	2kΩ or more	
1 to 5V DC		
0 to 10V DC	1010	
-10 to +10V DC	10kΩ or more	