JUXTA F Series General Specification

Model FX3□-AS (Variable software type) Adder/Subtractor

NTXUL

1. GENERAL

This is a variable software type computing unit which accepts two mV signal inputs from various converters and outputs an isolated DC voltage or current signal after 2-input addition and subtraction are performed.

2. SPECIFICATIONS

Model No.	FX3A-AS, FX3V-AS		
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 M Ω (At power failure: More than 3 K Ω)		
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		
Computing equation	Y = K3 {K1 (X1+A1) + K2 (X2+A2)} + A3 Where, Y: Output signal (%) X1 and X2: Input signal (%) K1 to K3: Gain (No unit) (*2) A1 to A3: Bias (%) (*3)		
Gain/bias setting range	Gain: ±7.990 and bias: ±799.0% Both correspond to ±799.0%. Determine the ranges so that the computing and the computed values do not exceed ±800.0%.		
Basic accuracy	±0.3% of measuring span		
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 Between output signal and power supply circuits: $100 \text{ M}\Omega/500 \text{ V DC}$		
Dielectric strength	Between input signal and output signal/power supply circuits: 1500 V AC/min Between output signal and power supply circuits: 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:

(*1) Measuring range from □ to □ mV

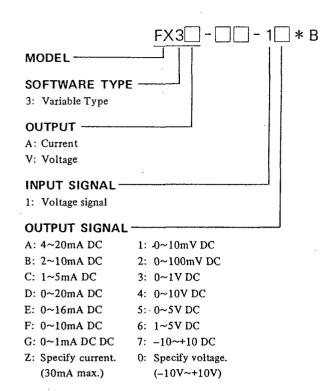
Range accuracy for span of less than 10 mV: 0.2 × 10/(mV input span) %

(*2) Gain K1, K2 and K3 within the range between -7.990 and 7.990

(*3) Biases A1, A2 and A3 within the range between -799.0 and 799.0%



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	Ordering Information					
Input Magazina Bassa						
	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				
How	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	Load Resistance	Output Impedance
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	
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	TOOK32 Of INGle	
0 to 1V DC		
0 to 5V DC	$2\mathrm{k}\Omega$ or more	
1 to 5V DC		1Ω or less
0 to 10V DC	10hO as	
-10 to +10V DC	10kΩ or more	