JUXTA W Series General Specification

Model WX3□-AS (Variable software type) Adder/Subtracter

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.	WX3A-AS, WX3V-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)		
Basic accuracy	±0.3% of measuring span		
Signal insulation	Between any of input signal, output signal, power supply circuits and grounding		
Insulation resistance	Between any of input, output and power (DC driven) Between any of input, output, power and grounding (AC driven) 100 MΩ/500 V DC		
Dielectric strength	Between input and output/power: 1500 V AC/min. and between output and power: 500 V AC/min. (DC driven) Between any of input, output, power and grounding: 1500 V AC/min. (AC driven)		
Power supply voltage	85 to 264 V AC 47 to 63 Hz, or 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 85 to 264 V AC or 24 V DC ±10% variation		
Power consumption	100 V AC, 7.0 VA (voltage output) and 100 V AC, 8.5 VA (current output) 24 V DC, 60 mA (voltage output) and 24 V DC, 82 mA (current output)		
Dimensions	72 (2.83") H × 48 (1.89") W × 127 (5.00") D mm (inch)		
Weight	Approx. 150 g (DC driven), 280 g (AC driven)		
Accessories	Tag number label: 1 sheet Mounting blocks: 2 pcs.		

Specify the following:

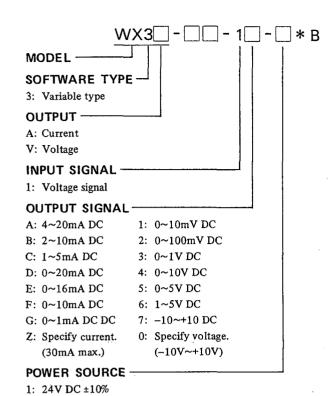
(*1) Measuring range from □ to □ mV

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%





Input Measuring Range					
Range name	Allowable min. span	Allowable Measuring Range			
нн	250 mV .	-100 ~ 1250 m _E V			
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			

Ordering Information

OUTPUT RESISTANCE AND LOAD RESISTANCE

2: 85~264V AC

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	$5 M\Omega$ 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	100 \$2 or less
0 to 100mV DC	100822 01 111016	
0 to 1V DC		1Ω or less
0 to 5V DC	2kΩ or more	
1 to 5V DC		
0 to 10V DC	10kΩ or more	
-10 to +10V DC		