JUXTA W Series General **Specification**

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 pressure compensation is performed.

2. SPECIFICATIONS

Model No.	WX3A-PR, WX3V-PR	
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	
Computing equation	Y = K1 · X1 √ K2 · X2 + A2 Where, Y: Flow output signal already compensated (%) X1: Flow input signal not yet compensated (%) (*2) X2: Pressure input signal (%) K1: Gain (No unit) (*3) K2: Gain (No unit) (*4) A2: Bias (%) (*5)	
Basic accuracy	±0.5% 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	$\pm 0.2\%$ of span for 85 to 264 V AC or 24 V DC $\pm 10\%$ 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 \square to \square mV

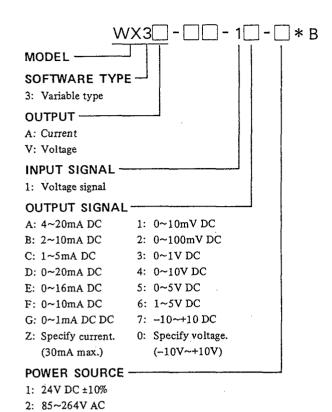
Range accuracy for span of less than 10 mV: $0.2 \times 10/(mV \text{ input span})$ %

(*2) Square root extraction of uncompensated flow input

(*3) Gain K1 within the range between -7.990 and 7.990% (*4) Gain K2 within the range between -7.990 and 7.990% (*5) Bias A2 within the range between -799.0 and 799.0%



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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		

Ordering Information

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	7
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	100%22 01 111016	
0 to 1V DC		·
0 to 5V DC	2kΩ or more	
1 to 5V DC		1Ω or less
0 to 10V DC	101-0	
-10 to +10V DC	10kΩ or more	