JUXTA W Series General Specification

Model WX3□-ML (Variable software type) Multiplier

JUXTA

1. GENERAL

This is a variable software type computing unit which accepts two mV inputs signal from a converter and outputs isolated various valtage or current signal after two-input multiplication are performed.

2. SPECIFICATION

Model No.	WX3A-ML WX3V-ML
Input signal	mV signal:two points
Measuring range	−2 to 10mV (There is accuracy limitation for spans of more than 3mV and less than 10 mV) −10 to 50mV (For span of more than 10mV) −50 to 250mV (For span of more than 50 mV) −100 to 1250mV (For span of more than 250mV) (*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	$Y=K3\ (K1\cdot X1+A1)\cdot(K2\cdot X2+A2)+A3$ 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	±0.5 of measuring span
Signal insulation	Between input signal, output signal and power supply circuit
Insulation resistance	Between input signal, output signal and power supply, output signal and power supply circuit:100MΩ/500V DC
Dielectric strength	Between input signal output signal and power supply circuit:1500V AC/min Between output signal and power supply circuit:500V AC/min
Power supply voltage	85 to 264V AC 47 to 63Hz or 24V DC ±10%
Ambient temperature/ humidity	0 to 50℃(32 to 122°F) and 5 to 93% relative humidity (No condensation)
Effect of ambient temperature	±0.2% of span for 10℃ (50°F) change
Effect of power supply voltage	±0.2% of span for 85 to 264V AC or 24V DC ±10% regulation
Power consumption	100V AC, 7.0 VA (voltage output) and 100V AC, 8.5 VA (current output) 24V DC, 60mA (voltage output) and 24V DC, 82mA (current output)
Dimensions	72(2.83") H×48(1.89") W×127(5.00") D mm(inch)
Weight	Approx. 280g
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%

WX3□-ML-□□-□＊B

MODEL

SOFTWARE TYPE

3:Variable type

OUTPUT

A:Current

V:Voltage

INPUT SIGNAL

1:Voltage Signal

0:Current Signal (non standard)

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	7 : −10～+10V DC
Z : Specify current. (30mA max.)	0 : Specify voltage. (−10V～+10V)

POWER SOURCE

1 : 24V DC ±10%

2 : 85～264V AC

Ordering Information

Input Measuring Range		
Range name	Allowable min. span	Allowable Measuring Range
HH	250mV	−100～1250mV
H	50mV	− 50～ 250mV
L	10mV	− 10～ 50mV
LL	3mV	− 2～ 10mV
However, accuracy of less than 10mV span is $0.2\% \times \frac{10\,mV}{input\ span(mV)}$ (%)		
Recommended Input Runge		
Voltage signal		0～10mV DC 0～100mV DC 0～1V DC

●OUTPUT RESISTANCE AND LOAD RESISTANCE●

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