# JUXTA W Series General Specification

**Model WX3□-DV (Variable software type) Divider**

JUXTA

## 1. GENERAL

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

## 2. SPECIFICATION

| | |
|---|---|
| Model No. | WX3A-DV WX3V-DV |
| Input signal | mV Signal:two points(*1) |
| Measuring range | −2 to 10 mV (There is accuracy limitation for spans of more than 3 mV and less than 10 mV.)<br>−10 to 50 mV (For span of more than 10 mV)<br>−50 to 250 mV (For span of more than 50 mV)<br>−100 to 1250 mV (For span of more than 250mv) (*1) |
| Input resistance | 1MΩ (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<br>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 | $Y=\frac{K3\ (K1\cdot X1+A1)}{K2\cdot X2+A2}+A3$<br>Where,<br>Y:Output signal (%)<br>X1 and X2:Input signal (%)<br>K1 to K3:Gain (No unit) (*2)<br>A1 to A3:Bias (%) (*3) |
| Gain/bias setting range | Gain:±7.990 and bias:±799.0%<br>Both correspond to ±799.0%<br>Determine the ranges so that the computing and the computed values do not to exceed ±800.0% |
| Basic accuracy | ±0.5% of measuring span |
| Signal insulation | Between input signal and output signal, power supply circuit and grounding |
| Insulation resistance | Between input signal and output signal, power supply circuit and grounding:100 MΩ/500 V DC |
| Dielectric strength | Between input signal and output signal, power supply circuit and grounding, and power supply circuit and output signal and grounding:1500 V DC/min<br>Between output signal and grounding:1000 V AC/min |
| Power supply voltage | 85 to 264 V AC 47 to 63 Hz or 24V 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 264V DC or 24V DC ±10% regulation |
| Power consumption | 100V AC, 7.0 VA (voltage output) and 100V AC, 8.5VA (current output)<br>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 10mV: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□-DV-□□-□*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<br>0~100mV DC<br>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 | | |

Subject to change without notice for grade up quality and performance