

JUXTA W Series General Specification

Model WX1□-DV (Variable software type)
Divider

JUXTA

1. GENERAL

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

2. SPECIFICATIONS

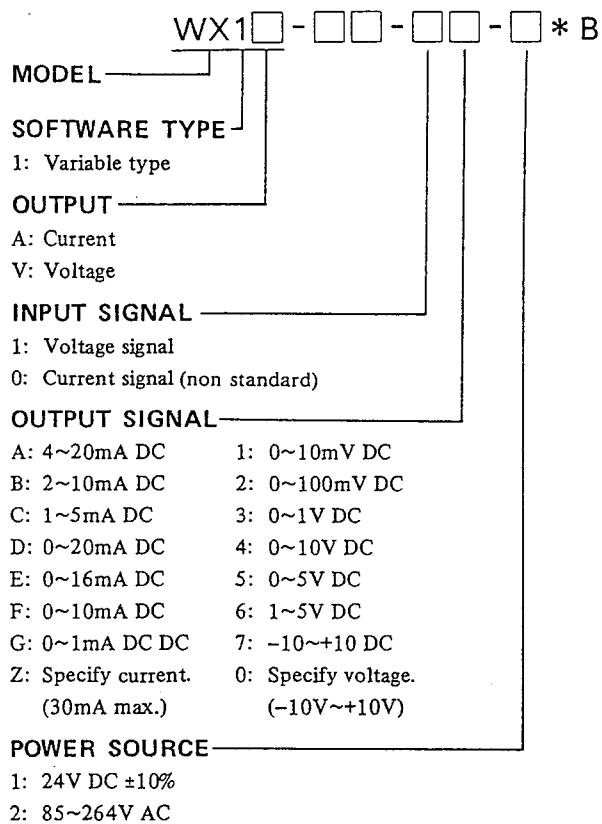
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|--------------------------------|--|
| Model No. | WX1A-DV, WX1V-DV |
| Input signal | DC voltage signal: 2 points V ₀ to V ₁₀₀ correspond to 0 to 100%. |
| Measuring range | 0 to 10 V DC (Measuring span: More than 2 V) (*1) |
| Input resistance | 1 MΩ (At power failure: More than 100 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 | $Y = \frac{K3 (K1 \cdot X1 + A1)}{K2 \cdot X2 + A2} + A3$ 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 | ±0.3% 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) 100 MΩ/500 V DC Between any of input, output, power and grounding (AC driven) |
| 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 | ±0.1% 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 when ordering:

(*1) Measuring range from □ to □ V

(*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%



Ordering Information

| Measuring Range of Input | |
|---|---|
| Voltage input signal: 2V min. Span for 0~10V DC | |
| Current input signal (input resist: 250Ω): (250Ω) × (Input current) shall be within the measuring span of voltage input signal. | |
| | Recommended Range |
| Current signal | 4~20mA DC 2~10mA DC 0~20mA DC 0~16mA DC 0~10mA DC |
| Voltage signal | 0~10V DC 0~ 5V DC 1~ 5V DC |

(Note) Change of input between voltage and current is impossible by Handy Terminal.

OUTPUT RESISTANCE AND LOAD RESISTANCE

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