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.) -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 250mv) (*1) | | | |
| Input resistance | $1M\Omega$ (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 = \frac{\text{K3 (K1 \cdot X1 + A1)}}{\text{K2 \cdot X2 + A2}} + \text{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: $\pm 799.0\%$ Both correspond to $\pm 799.0\%$ Determine the ranges so that the computing and the computed values do not to exceed $\pm 800.0\%$ | | | |
| Basic accuracy | $\pm 0.5\%$ 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 M $\Omega/500$ 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 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 | $\pm 0.2\%$ of span for 85 to 264V DC or 24V DC $\pm 10\%$ regulation | | | |
| Power consumption | 100V AC, 7.0 VA (voltage output) and 100V AC, 8.5VA (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. | | | |

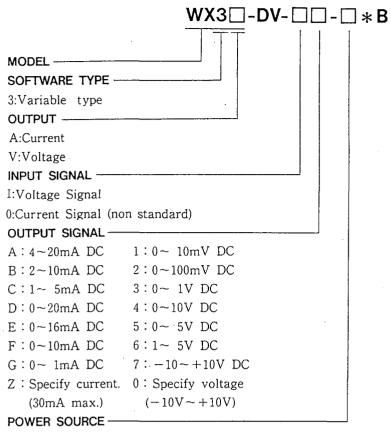
Specify the following:

(*1) Measuring range from □ to □mV

Range accuracy for span of less than 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%



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

0~1V DC

Ordering Information

1:24V DC ±10% 2:85~264V AC

OUTPUT RESISTANCE AND LOAD RESISTANCE

| Output Signal | Load Resistance | Output Impedance |
|---------------|-----------------|------------------|
| 4 to 20mA BC | 0 to 750 Ω | · |
| 2 to 10mA DC | 0 to 1500 Ω | |
| 1 to 5mA DC | 0 to 3000 Ω | |
| 0 to 20mA DC | 0 to 750 Ω | 5MΩ or more |
| 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 | 100K 52 OI IIIOIE | 100 22 Of less |
| 0 to 1V DC | | |
| 0 to 5V DC | $2 k \Omega$ or more | |
| 1 to 5V DC | | 1Ω or less |
| 0 to 10V DC | 10kΩ or more | ; |
| -10 to +10V DC | 104 25 OL HIOLE | |