1. GENERAL

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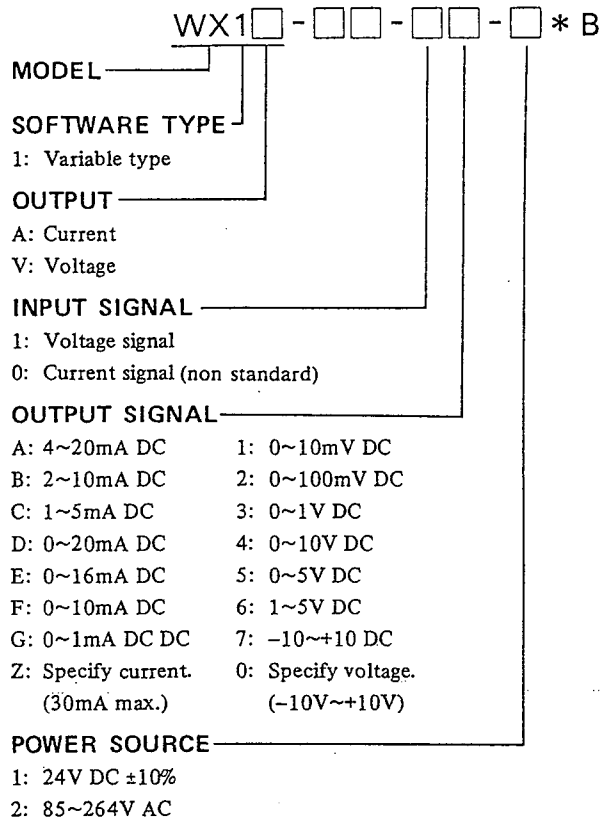
2. SPECIFICATIONS

Model No.	WX1A-ML, WX1V-ML
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	$Y = K3 (K1 \cdot X1 + A1) \cdot (K2 \cdot X2 + A2) + A3$ 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	±0.3% 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:
(*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%

WX1☐ - ☐☐ - ☐☐ - ☐ * B

MODEL ─────────┘

SOFTWARE TYPE ─┘
1: 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 DC	7: −10~+10 DC
Z: Specify current.	0: Specify voltage.
(30mA max.)	(−10V~+10V)

POWER SOURCE ─────────
1: 24V DC ±10%
2: 85~264V AC

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	
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	
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