

# JUXTA F Series General Specification

Model FX3□-VC (Variable software type)  
FX4□-VC (Fixed software type)  
Velocity Unit

JUXTA

## 1. GENERAL

This is a variable or fixed software type computing unit which accepts a mV signal from various converters and outputs an isolated DC voltage or current signal after velocity computation using velocity computing time set by a handy terminal or variable resistor.

## 2. SPECIFICATIONS

Model No.	FX3A-VC, FX3V-VC	FX4A-VC, FX4V-VC
Input signal	DC voltage signal: 1 point	DC voltage signal: 1 point Volume setting
Measuring range	-2 to 10 mV (There is accuracy limitation for spans of more than 3 mV and less than 10mV.) -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 250 mV) (*1)	
Input resistance	1 MΩ (At power failure: More than 3 KΩ)	
Output signal	4 to 20 mA, 2 to 10 mA, 1 to 5 mA, 0 to 20 mA, 0 to 16 mA, 0 to 10 mA or 0 to 1 mA DC 0 to 10 mV, 0 to 100 mV, 0 to 1 V, 0 to 10 V, 0 to 5 v, 1 to 5 V or -10 to +10 V DC	
Computing equation	$Y = \frac{Y - X_L}{2} + 50\%$ X: The present input X <sub>L</sub> : The previous input	
Velocity computing time range	0 to 7990 sec (0.0 to 799.0%) (*2)	0 to 1000 sec (0 to 1.000 V)
Time constant setting range	0.0 to 799.0 sec (0.0 to 799.0%) (*3)	
Basic accuracy	±0.2% of measuring span	
Signal insulation	Between input signal and output signal/power supply circuits, and between output signal and power supply circuits	
Insulation resistance	Between input signal and output signal/power supply circuits Between output signal and power supply circuits: 100 MΩ/500 V DC	
Dielectric strength	Between input signal and output signal/power supply circuit: 1500 V AC/min Between output signal and power supply circuit: 500 V AC/min	
Power supply voltage	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	±0.2% of span for 24 V DC ±10% variation	
Power consumption	24 V DC, 56 mA (Voltage output) and 24 V DC, 78 mA (Current output)	
Dimensions	72 (2.83") H × 24 (0.94") W × 127 (5.00") D mm (inch)	
Weight	Approx. 130 g	
Accessories	Tag number label : 1 sheet Mounting blocks: 2 pcs.	

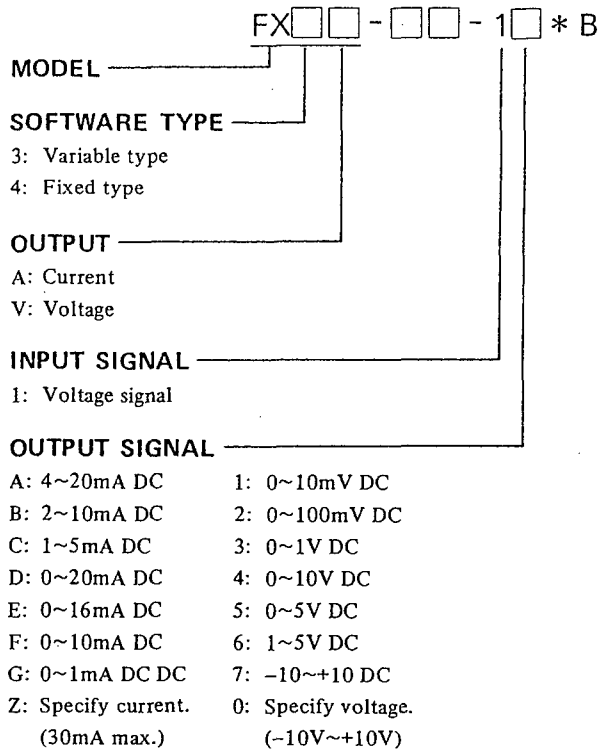
Specify the following when ordering:

(\*1) Measuring range from □ to □mV

Range accuracy for span of less than 10 mV; 0.2 × 10/(mV input span) %

(\*2) Velocity computing time; □sec

(\*3) 1st-order lag time constant; □sec



Ordering Information

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

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