# **JUXTA F Series** General **Specification**

## **NTXUL**

### 1. GENERAL

This is a variable software type computing unit which accepts two mV signal inputs from various converters and outputs an isolated DC voltage or current signal after temperature compensation is performed.

### 2. SPECIFICATIONS

Model No.	FX3A-TR, FX3V-TR		
Input signal	mV signal: 2 points		
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 250 mV) (*1)		
Input resistance	1 MΩ (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 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	$Y = \frac{K1 \cdot X1}{\sqrt{K2 \cdot X2 + A2}}$ Where, Y: Flow output signal already compensated (%) X1: Flow input signal not yet compensated (%) (*2) X2: Temperature input signal (%) K1: Gain (No unit) (*3) K2: Gain (No unit) (*4) A2: Bias (%) (*5)		
Basic accuracy	±0.5% 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, and Between output signal and power supply circuits: 100 M $\Omega$ /500 V DC		
Dielectric strength	Between input signal and output signal/power supply circuits: 1500 V AC/min Between output signal and power supply circuits: 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.		

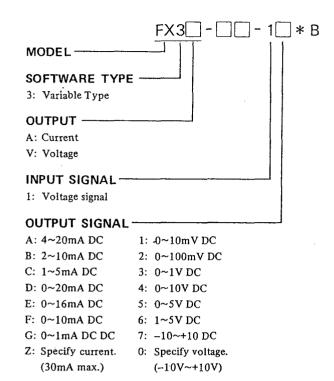
Specify the following when ordering:

(\*1) Measuring range from □ to □ mV

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

- (\*2) Square root extraction of uncompensated flow input
- (\*3) Gain K1 within the range between -7.990 and 7.990 (\*4) Gain K2 within the range between -7.990 and 7.990
- (\*5) Bias A2 within the range between -799.0 and 799.0%





Input Measuring Range					
Range name	Allowable min. span	Allowable Measuring Range			
нн	250 mV	-100 ~ 1250 mV			
Н	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					
Voi	Itage signal	0 ~ 10 mV DC 0 ~ 100 mV DC 0 ~ 1V DC			

Ordering Information

#### 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	100832 01 111016	
0 to 1V DC		,
0 to 5V DC	$2k\Omega$ or more	
1 to 5V DC		1Ω or less
0 to 10V DC	10kΩ or more	
-10 to +10V DC		