JUXTA F Series General Specification

Model FX3□-DT (Variable software type)
FX4□-DT (Fixed software type)
Dead Time Setter

JUXTA

1. GENERAL

This is a variable or fixed software type computing unit which accepts a mV signal from a converter and outputs the computed result signal using dead time set by a handy terminal or variable resistor, as isolated various voltage or current signal.

2. SPECIFICATION

Model No.	FX3A-DT, FX3V-DT	FX4A-DT, FX4V-DT
Input signal	mV signal: 1 point	mV signal: 1 point Volume setting
Measuring range	−2 to 10mV (There is accuracy limitation for spans of more than 3mV and less than 10mV.) −10 to 50mV (For span of more than 10mV) −50 to 250mV (For span of more than 50mV) −100 to 1250mV (For span of more than 250mV) (*1)	
Input resistance	1MΩ (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	$Y=\frac{e^{-LS}}{1+TS}X$	$Y=e^{-LS}X$
Dead time setting range	0 to 7990 sec (0.0 to 799.0%) (*2)	0 to 1000 sec (0 to 1.000V)
Time constant setting range	0.0 to 799.0 sec (0.0 to 799.0%) (*3)	
Basic accuracy	±0.2% of measuring span	±0.2% of measuring span
Signal insulation	Between input signal, output signal and power supply circuit	
Insulation resistance	Between input signal and output signal/power supply circuit Between output signal and power supply circuits: 100MΩ/500V DC	
Dielectric strength	Between input signal and output signal/power supply ciruit: 1500V AC/min Between output signal and power supply circuit: 500V AC/min	
Power supply voltage	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	±0.2% of span for 24V DC ±10% regulation	
Power consumption	24V DC, 56mA (Voltage output) and 24V DC, 78mA (Current output)	
Dimensions	72(2.83") H×24(0.94") W×127(5.00") D mm(inch)	
Weight	Approx. 130g	
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 10mV; 0.2×10/(mV input span)%
(*2) Dead time; □ sec.
(*3) 1st-order lag time constant; □ sec.

FX□□-DT-□□*B

MODEL

SOFTWARE TYPE

3:Variable Type

4:Fixed Type

OUTPUT

A:Current

V:Voltage

INPUT SIGNAL

1:Voltage Signal

0:Current Signal (non standard)

OUTPUT SIGNAL

A : 4~20mA DC
B : 2~10mA DC
C : 1~ 5mA DC
T : 0~20mA DC
E : 0~16mA DC
F : 0~10mA DC
G : 0~ 1mA DC
Z : Specify current. (30mA max.)

1 : 0~ 10mV DC
2 : 0~100mV DC
3 : 0~ 1V DC
4 : 0~10V DC
5 : 0~ 5V DC
6 : 1~ 5V DC
7 : −10~+10V DC
0 : Specify voltage. (−10V~+10V)

Ordering Information

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

●OUTPUT RESISTANCE AND LOAD RESISTANCE●

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