JUXTA F Series General Specification

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

NTXUL

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	$\pm0.2\%$ 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: $100M\Omega/500V$ 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	$\pm 0.2\%$ of span for 24V DC $\pm 10\%$ 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:

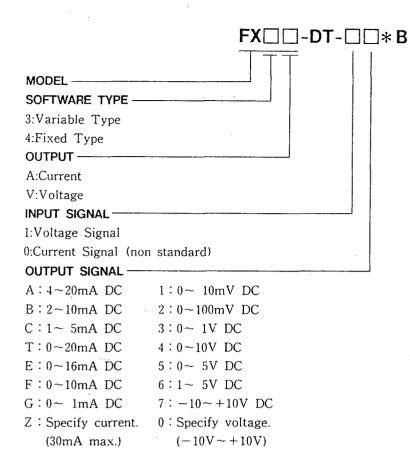
(*1) Measuring range from \square to $\square mV$

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

(*2) Dead time; \square sec.

(*3) 1st-order lag time constant; ☐ sec.





Ord	Ordering Information					
In	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						
1	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				

●OUTPUT RESISTANCE AND LOAD RESISTANCE●

Output Signal	Load Resistance	Output Impedance
4 to 20mA DC	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	1001-0	1000 1
0 to 100mV DC	100kΩ or more	100Ω or less
0 to 1V DC		
0 to 5V DC	$2k\Omega$ or more	
1 to 5V DC	•	1Ω or less
0 to 10V DC	101: O or more	-
-10 to +10V DC	10kΩ or more	