JUXTA W Series

Model: WA5A/V

NTXUL

General Specifications

Distributor (with Squre Root Extractor)

1. GENERAL

This distributor with square root extractor converts differential pressure flow signals to linear signals in combination with 2-wire type transmitter.

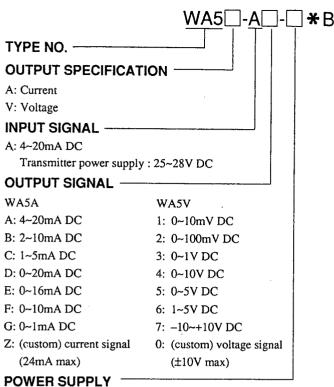
- Incorporated in transmitter short-circuit protection
- Incorporated in low-cut circuit
- Incorporated in one-chip microcomputer for high efficiency and superior performance
- Use of Handy Terminal allows easy on-site zero and span adjustments and I/O monitoring

2. SPECIFICATIONS

	IO Specifications	
Input signal	4~20mA DC from 2-wire transmitter	
Input resistance	250Ω	
Permissible applied voltage	40mA max	
Transmitter power supply voltage.	26.5±1.5V DC (with current limit circuit at 25~35mA)	
Permissible conductor resistance	RL≤(20-minimum transmitter operating voltage)V/0.02A (Ω)	
Input compensation function	Square root computation: $Y=2\sqrt{X-1}+1(V)$	
	(Y: output signal, and X: input signal)	
Output signal	DC current or voltage signal	
Zero point adjustment range	±10% of span	
Span adjustment range	±10% of span	
	Standard performance	
Precision rating	±0.1% of span	
Response speed	200ms 63% response (10~90%)	
Insulation resistance	100MΩ min (at 500V DC) between	
	input~output~power supply (DC drive)	
	input~output~power supply~ground (AC drive)	
Voltage withstand	1500V AC/minute between input~output, input~power supply	
	500V AC/minute between output~power supply (DC drive)	
	1500V AC/minute between input~output~power supply~ground (A	
	drive) .	
Ambient temperature and humidity	Normal operating condition: 0~50°C, 5~90% RH	
	Operating limit: -10~60°C, 5~95% RH	
•	Storage condition: -40~70°C, 5~95% RH	
	(no condensation)	
Power supply voltage	85~264V AC 47~63Hz, 24V DC ±10%	
Effect of power supply voltage fluctuation	±0.1% max of span per 85~264V AC or 24V DC ±10% fluctuation	
Effect of change in ambient temperature	±0.2% max of span per 10°C change in temperature	
Current dissipation	24V DC 110mA (WA5A-1), 75mA (WA5V-1)	
Power dissipation	100V AC 10VA (WA5A-2), 6VA (WA5V-2)	
	Mountings and dimensions	
Material	Case: ABS plastic	
Boards	Both sides glass-epoxy	
Mounting methods	Rack, wall, or DIN rail	
Connection method	M4-screw terminals	
External dimensions	72 x 48 x 127 mm (h x w x d)	
Weight	DC drive: approx. 150g, AC drive: approx. 300g	
	Accessories	
Tag number labels: 1		
Mounting blocks: 2	M4 mounting screws: 4	



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	DUAL OUTPUT SPECIF	CICATIONS
Model	1st Output (selectable)	2nd Output
	4~20mA DC	
	2~10mA DC	
	1~5mA DC	
WA5A	0~20mA DC	1 0100
WAJA	0~16mA DC	1~5V DC
	0~10mA DC	
	0~1mA DC	
	0~10mV DC	
	0~100mV DC	
	0~1V DC	
WA5V	0~10V DC	1~5V DC
	0~5V DC	
	1~5V DC	
	-10~+10V DC	

The JUXTA W Series allows dual output. Enter/DO after the model code when ordering.

1: 24V DC±10% 2: 85~264V AC

High Voltage Withstand Specifications

The JUXTA W Series is also available in 2000V AC voltage withstand specifications. Contact your dealer for details.

OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE

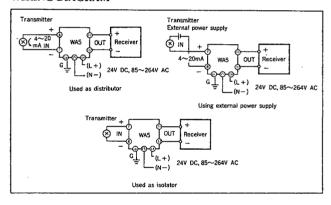
WA5A (DC Current Output)			
Output Signal	Output Resistance	Permissible Load Resistance	
4~20mA DC	5MΩ min	0~750Ω	
2~10mA DC		0~1500Ω	
1~ 5mA DC		0~3000Ω	
0~20mA DC		0~750Ω	
0~16mA DC		0~900Ω	
0~10mA DC		0~1500Ω	
0~ 1 mA DC		0~15kΩ	
Others where I100=24mA max		(15/I100)Ω max	
		T 1000	

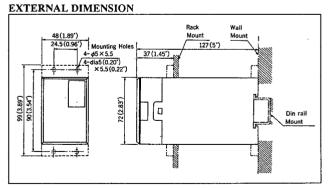
I100: 100% output current

O44	
Output Resistance	Permissible Load Resistance
1000	2501-0:-
10022 max	$250k\Omega$ min
1Ω max	2kΩ min
	10kΩ min
	2kΩ min
	2kΩ min
	10kΩ min
100Ω max	250kΩ min
1Ω max	10kΩ min
	100Ω max 1Ω max

V100: 100% output voltage

WIRING DIAGRAM





Subject to change without notice for grade up quality and performance