

# JUXTA W Series

Model : WV1A/V

## General Specifications

Manual Setter

JUXTA

### 1. GENERAL

This signal conditioner converts linear signals of 0~1V (0~100%) at the check terminal to optional linear current or voltage signals by varying set trimmer.

### 2. SPECIFICATIONS

<b>IO Specifications</b>	
Output signal	DC current or voltage signals
<b>Standard performance</b>	
Relative error	±0.1% (signal output vs check output)
Insulation resistance	100MΩ min (at 500V DC) between Check terminal~power supply (DC drive) Check terminal~power supply~ground (AC drive)
Voltage withstand	500V AC/minute between check terminal~power supply (DC drive) 1500V AC/minute between check terminal~power supply~ground (AC 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 load resistance	±0.05% of span per 0~750Ω fluctuation (WV1A) ±0.05% of span per 2KΩ~∞ fluctuation (WV1V)
Effect of change in ambient temperature	±0.2% max of span per 10°C change in temperature
Effect of change in ambient humidity	±0.2% of span per 5~90% RH change in humidity
Current dissipation	24V DC 90mA (WV1A-1), 50mA (WV1V-1)
Power dissipation	100V AC 7VA (WV1A-2), 5.5VA (WV1V-2)
<b>Mountings and dimensions</b>	
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
<b>Accessories</b>	
Tag number labels: 1	
Mounting blocks: 2	M4 mounting screws: 4

WV1  -1  -  \* B

**TYPE NO.** \_\_\_\_\_

**OUTPUT SPECIFICATION** \_\_\_\_\_

A: Current  
V: Voltage

**OUTPUT SIGNAL** \_\_\_\_\_

WV1A	WV1V
A: 4~20mA DC	1: 0~10mV DC
B: 2~10mA DC	2: 0~100mV DC
C: 1~5mA DC	3: 0~1V DC
D: 0~20mA DC	4: 0~10V DC
E: 0~16mA DC	5: 0~5V DC
F: 0~10mA DC	6: 1~5V DC
G: 0~1mA DC	7: -10~+10V DC
Z: (custom) current signal (24mA max)	0: (custom) voltage signal (±10V max)

**POWER SUPPLY** \_\_\_\_\_

1: 24V DC±10% 2: 85~264V AC

DUAL OUTPUT SPECIFICATIONS		
Model	1st Output (selectable)	2nd Output
WV1A	4~20mA DC	1~5V DC
	2~10mA DC	
	1~5mA DC	
	0~20mA DC	
	0~16mA DC	
	0~10mA DC	
	0~1mA DC	
WV1V	0~10mV DC	1~5V DC
	0~100mV DC	
	0~1V DC	
	0~10V 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.

### 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

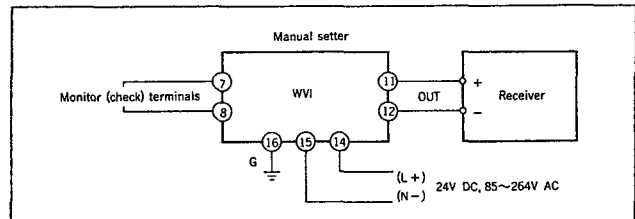
WV1A (DC Current Output)		
Output Signal	Output Resistance	Permissible Load Resistance
4~20mA DC	5MΩ min	0~750Ω
2~10mA DC		0~1500Ω
1~5mA DC		0~3000Ω
0~20mA DC		0~750Ω
0~16mA DC		0~900Ω
0~10mA DC		0~1500Ω
0~1mA DC		0~15kΩ
Others where I <sub>100</sub> =24mA max		

I<sub>100</sub>: 100% output current

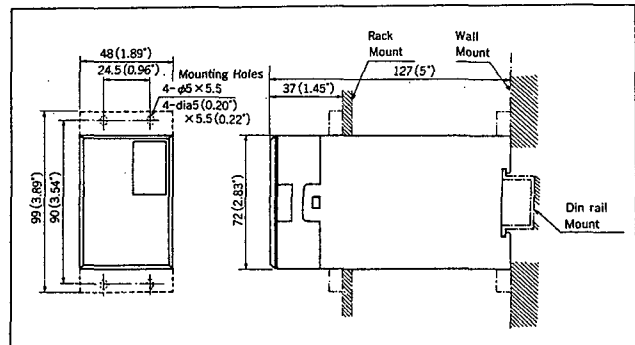
WV1V (DC Voltage Output)		
Output Signal	Output Resistance	Permissible Load Resistance
0~10mV DC	100Ω max	250kΩ min
0~100mV DC		250kΩ min
0~1V DC	1Ω max	2kΩ min
0~10V DC		10kΩ min
0~5V DC		2kΩ min
1~5V DC		2kΩ min
-10~+10V DC		10kΩ min
Others where V <sub>100</sub> =10V max	V <sub>100</sub> ≤ 100mV	100Ω max
	V <sub>100</sub> > 100mV	1Ω max

V<sub>100</sub>: 100% output voltage

### WIRING DIAGRAM



### EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance