

# JUXTA W Series

## General Specifications

Model : WG1A/V

JUXTA

PT Transmitter (R.M.S.)

### 1. GENERAL

This instrument converts AC voltage signals output from PT, etc. to current or voltage signals.

- AC/DC conversion is made by root mean square.

### 2. SPECIFICATIONS

IO Specifications	
Input signal	0~110V AC or 0~150V AC
Input loss	0.5VA max
Input frequency	40Hz~10kHz
Permissible over-input	120% (continuous), 200% (1 minute)
Output signal	DC current or voltage signal
Zero point adjustment range	±5% of span
Span adjustment range	±5% of span
Standard performance	
Precision rating	±0.2% of span
Response speed	170ms 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	2600V AC/minute between input~output, input~power supply 500V AC/minute between output~power supply (DC drive) 2600V AC/minute between input~output, input~power supply, input~ground 1500V AC/minute between output~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 change in ambient temperature	±0.2% max of span per 10°C change in temperature
Current dissipation	24V DC 90mA (WG1A-1), 60mA (WG1V-1)
Power dissipation	100V AC 7VA (WG1A-2), 6VA (WG1V-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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TYPE NO. \_\_\_\_\_

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

A: Current  
V: Voltage

Input signals \_\_\_\_\_

1: 0~110V AC  
2: 0~150V AC  
0: Custom AC voltage signal  
(100% input voltage of 30~300V AC)

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

WG1A  
A: 4~20mA DC  
B: 2~10mA DC  
C: 1~5mA DC  
D: 0~20mA DC  
E: 0~16mA DC  
F: 0~10mA DC  
G: 0~1mA DC  
Z: (custom) current signal  
(24mA max)

WG1V  
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: (custom) voltage signal  
(±10V max)

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

1: 24V DC±10% 2: 85~264V AC

DUAL OUTPUT SPECIFICATIONS		
Model	1st Output (selectable)	2nd Output
WG1A	4~20mA DC	1~5V DC
	2~10mA DC	
	1~5mA DC	
	0~20mA DC	
	0~16mA DC	
	0~10mA DC	
	0~1mA DC	
WG1V	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

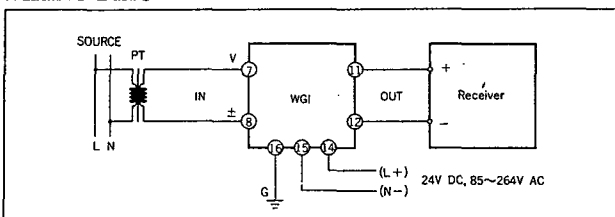
WG1A (DC Current Output)		
Output Signal	Output Resistance	Permissible Load Resistance
4~20mA DC	5MΩ min	0~750Ω
2~10mA DC		0~1500Ω
1~5mA DC		0~3000Ω
0~20mA DC		0~750Ω
0~16mA DC		0~900Ω
0~10mA DC		0~1500Ω
0~1mA DC		0~15kΩ
Others where $I_{100}=24\text{mA max}$		$(15/I_{100})\Omega \text{ max}$

$I_{100}$  : 100% output current

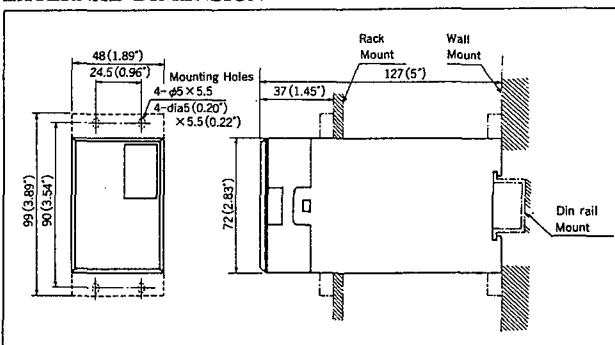
WG1V (DC Voltage Output)		
Output Signal	Output Resistance	Permissible Load Resistance
0~10mV DC	100Ω max	250kΩ min
0~100mV DC		
0~1V DC	1Ω max	2kΩ min
0~10V DC		10kΩ min
0~5V DC		2kΩ min
1~5V DC		2kΩ min
-10~+10V DC		10kΩ min
Others where $V_{100}=10\text{V max}$	$V_{100} \leq 100\text{mV}$ 100Ω max $V_{100} > 100\text{mV}$ 1Ω max	250kΩ min 10kΩ min

$V_{100}$  : 100% output voltage

#### WIRING DIAGRAM



#### EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance