

**General**
**Specifications**

Tachometer Transmitter

**1. GENERAL**

This signal conditioner converts AC voltage signals from electrical tachometers (tachogenerators) into current or voltage signals.

- AC/DC conversion is made by mean value.

**2. SPECIFICATIONS**

<b>IO Specifications</b>	
Input signal	0~V <sub>100</sub> V AC (V <sub>100</sub> = 100% input voltage) 16 ≤ V <sub>100</sub> ≤ 150V AC
Input frequency	15Hz ≤ F <sub>100</sub> ≤ 1kHz (F <sub>100</sub> = 100% input frequency)
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
<b>Standard performance</b>	
Precision rating	±0.3% of span (100% input, 30Hz min frequency range)
Response speed	2.4s 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 (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 (WD1A-1), 60mA (WD1V-1)
Power dissipation	100V AC 7VA (WD1A-2), 6VA (WD1V-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

WD1-1- \* B

TYPE NO.

OUTPUT SPECIFICATION

A: Current

V: Voltage

Input signals

1: AC voltage signals

OUTPUT SIGNAL

WD1A

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)

WD1V

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
WD1A	4~20mA DC	1~5V DC
	2~10mA DC	
	1~5mA DC	
	0~20mA DC	
	0~16mA DC	
	0~10mA DC	
WD1V	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

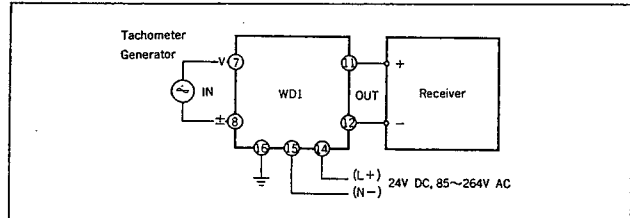
WD1A (DC Current Output)			
Output Signal	Output Resistance	Permissible Load Resistance	
4~20mA DC	5MΩ min	0~750Ω	
2~10mA DC		0~1500Ω	
1~5mA DC		0~3000Ω	
0~20mA DC		0~750Ω	
0~16mA DC		0~900Ω	
0~10mA DC		0~1500Ω	
0~1mA DC		0~15kΩ	
Others where I <sub>100</sub> =24mA max			(15/I <sub>100</sub> )Ω max

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

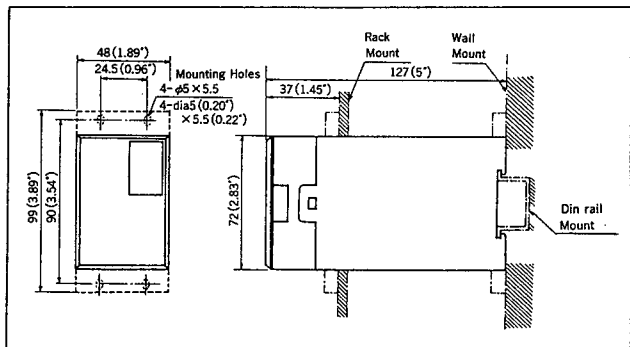
WD1V (DC Voltage Output)		
Output Signal	Output Resistance	Permissible Load Resistance
0~10mV DC	100Ω max	250kΩ min
0~100mV DC		
0~1V DC	1Ω max	2kΩ min
0~10V DC		10kΩ min
0~5V DC		2kΩ min
1~5V DC		2kΩ min
-10~+10V DC		10kΩ min
Others where V <sub>100</sub> ≤100mV		100Ω max
V <sub>100</sub> >100mV	1Ω max	10kΩ min

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

WIRING DIAGRAM



EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance