

JUXTA W Series

General Specifications

Model WH2A/V
Isolator

JUXTA

1. GENERAL

Model WH2A/V Isolator, μ P built-in type, converts DC current or voltage signals into various current or voltage signals. Change of input/output ranges, adjustment of zero span and monitoring of input/output can easily be made in the field by handy terminal.

2. SPECIFICATIONS

Input & Output		
Input signal	DC voltage or current signal	See Table 1
Input resistance	[current input] 100Ω	See Table 1
	[voltage input] 1MΩ (when power on), 100KΩ (when power off)	
Permissible applied input	See Table 1	
Output signal	DC voltage or current signal	See Table 2
Zero point adjust range	±1% of span (input adjust), ±10% of span (output correction)	
Span adjust range	±1% of span (input adjust) ±10% of span (output correction)	
Standard Performance		
Accuracy rating	±0.1% of span	
Response speed	150ms 63% response (10~90%)	
Insulation resistance	More than 100MΩ (at 500V DC) between input~output~power supply mutually	
Withstand voltage	1500V AC/1 minute between input~output, input~power supply	
	500V AC/1 minute between output~power source (DC Drive)	
	1500V AC/1 minute between input~output~power supply~ground mutually (AC Drive)	
Ambient temperature & humidity	Normal operating condition: 0~50° C, 5~90%RH	
	Operating limit: -10~60° C, 5~95%RH	
	Storing condition: -40~70° C, 5~95%RH (no condensation)	
Power supply voltage	85~264V AC, 47~63Hz, 24V DC±10%	
Effect of power source voltage fluctuation	Less than ±0.1% of span per fluctuation of 85~264V AC or 24V DC±10%	
Effect of ambient temperature change	Less than ±0.2% of span per change of 10° C	
Current dissipation	24V DC 92mA(WH2A-1), 60mA(WH2V-1)	
Power dissipation	100V AC 11VA(WH2A-2), 7.5VA(WH2V-2)	
Mounting & Dimension		
Material	ABS plastic case	
Boards	Both sides glass-epoxy	
Mounting method	Rack, wall or DIN rail	
Connection method	M4-screw terminals	
External dimension	72x48x127mm (HxWxD)	
Weight	200g(DC Drive) 300g(AC Drive)	
Accessories		
Tag number label ... 1	Range label ... 1	
Mounting block..... 2	M4 mounting screw ...2	

WH2□-□□-□*A

Type

Output Specifications

A: Current
V: Voltage

Input Signal (See Table 1 for setting range)

A: 0~50mA DC 1: -10~+10V DC
B: 0~10mA DC 2: -1~+1V DC
Z: (CUSTOM) Current Signal 0: (CUSTOM) Voltage Signal

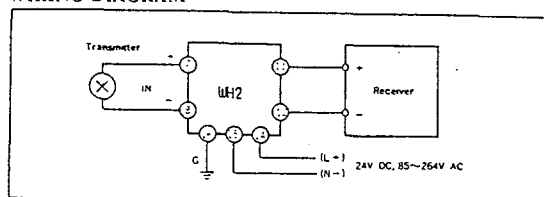
Output Signal (See Table 2 for setting range)

[WH2A] [WH2V]
A: 0~20mA DC 1: 0~10V DC
B: 0~5mA DC 2: 0~100mV DC
0: (CUSTOM) Voltage Signal

Power Supply

1: 24V DC±10%
2: 85~264V AC 47~63Hz

WIRING DIAGRAM



EXTERNAL DIMENSION

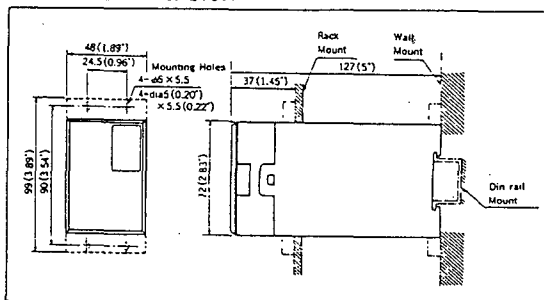


TABLE 1

Input Type	Input Range Setting	Permissible Applied Input	Input Resistance
1	-10~+10V DC, Span 1V min., Elevation -50~50%	±15V	
2	-1~+1V DC, Span 0.1V min., Elevation -50~50%	±15V	1kΩ (when power on)
0	-30~+30V DC, Span 3V min., Elevation -50~50%	±50V	100kΩ (when power off)
A	0~50mA DC, Span 10mA min., Elevation 0~50%	70mA	100Ω
B	0~10mA DC, Span 1mA min., Elevation 0~50%	70mA	100Ω
Z	0~5mA DC, Elevation 0~50% Span should be $R_i \times I_s \geq 1(V)$ 100% point should be $R_i \times I_{100} \leq 10(V)$	Current 1(mA) when $R_i \times I^2 \leq 0.5(W)$	Specify by customer (satisfy conditions mentioned left)

R_i : Input resistance I_s : Input current span I : Permissible maximum input current
 I_{100} : 100% input current

TABLE 2

Output Type	Output Range Setting	Output Resistance	Permissible Load Resistance
1	0~10V DC, Span 1V min., Elevation 0~50% where accuracy limit exists in span less than 2V	1Ω maximum	10KΩ minimum
2	0~100mV DC, Span 10mV min., Elevation 0~50% where accuracy limit exists in span less than 20mV	100Ω maximum	250KΩ minimum
0	*manufacture available range -10~+10V DC, Span 10mV min., Elevation -50~50%	1Ω or 100Ω maximum	10KΩ or 250KΩ minimum
A	0~5mA DC, Span 1mA min., Elevation 0~50% where accuracy limit exists in span less than 2mA	500KΩ minimum	(15/OUT ₁₀₀)Ω max.
B	0~20mA DC, Span 4mA min., Elevation 0~50% where accuracy limit exists in span less than 8mA		

Subject to change without notice for grade up quality and performance