

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] 100 Ω See Table 1 [voltage input] 1M Ω (when power on), 100K Ω (when power off) |
| Permissible applied input | See Table 1 |
| Output signal | DC voltage or current signal See Table 2 |
| Zero point adjust range | $\pm 1\%$ of span (input adjust), $\pm 10\%$ of span (output correction) |
| Span adjust range | $\pm 1\%$ of span (input adjust) $\pm 10\%$ of span (output correction) |
| Standard Performance | |
| Accuracy rating | $\pm 0.1\%$ of span |
| Response speed | 150ms 63% response (10~90%) |
| Insulation resistance | More than 100M Ω (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 $^{\circ}$ C, 5~90%RH Operating limit: -10~60 $^{\circ}$ C, 5~95%RH Storing condition: -40~70 $^{\circ}$ C, 5~95%RH (no condensation) |
| Power supply voltage | 85~264V AC, 47~63Hz, 24V DC $\pm 10\%$ |
| Effect of power source voltage fluctuation | Less than $\pm 0.1\%$ of span per fluctuation of 85~264V AC or 24V DC $\pm 10\%$ |
| Effect of ambient temperature change | Less than $\pm 0.2\%$ of span per change of 10 $^{\circ}$ 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

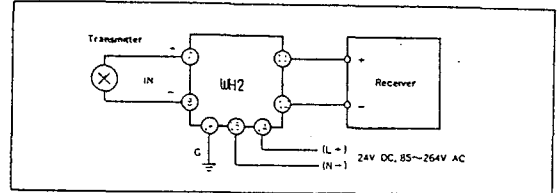
Output Signal (See Table 2 for setting range)

[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

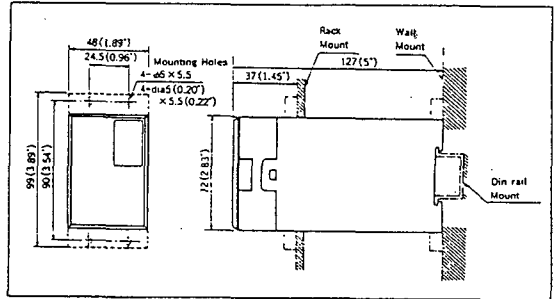


TABLE 1

| 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 I(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