

# JUXTA D Series

## General Specifications

Model DH2  
Isolator

JUXTA

### 1. General

This DSC correspondence nest stored type isolator converts DC current or voltage signals into various current or voltage signals.

Setting of zero/span of input range, adjustment of zero/span of input/output, I/O monitoring can be done in the field by handy terminal.

### 2. Specifications

Input & Output	
Input signal	DC voltage or current signals See Table 1
Input resistance	[Current input] 100Ω See Table 1 [Voltage input] 1MΩ (when power on), 10KΩ (when power off)
Permissible applied voltage	See Table 1
Ch1 output signal	1~5V DC
Ch2 output signal	DC voltage or current signals (In case of current output, output is available only either from front terminals ③~④ or connector)
Zero point adjustment range	±1% of span (input adjustment), 10% of span (output correction)
Span adjustment range	±1% of span (input adjustment), 10% of span (output correction)
Standard Performance	
Accuracy rating	±0.1% of span
Response speed	150ms 63% response (10~90%)
Insulation resistance	100MΩ or more (at 500V DC) between input~output, input~power supply, output~power supply.
Voltage withstand	1500V AC/minute between input~output, input~power supply 500V AC/minute between output~power supply
Ambient temperature and humidity	Normal operating condition : 0~50°C, 5~90% RH Operating limit : -10~60°C, 5~95% RH Storage condition : -10~70°C, 5~95% RH (no condensation)
Power supply voltage	24V DC±10% (ripple content 10% p-p or less)
Effect of power supply voltage fluctuation	±0.1% or less of span per 24V DC±10% fluctuation
Effect of ambient temperature change	±0.2% or less of span per 10°C temperature change
Current dissipation	24V DC 90mA (4~20mA DC) 60mA (1~5V DC)
Mounting & Dimension	
Boards	Both sides glass-epoxy
Mounting method	Store in exclusive nest (signal power supply be connected through back board and connector)
Wiring	External wiring : Connect to terminal M4 screw of input/output of exclusive nest. Connection to I/O card: By exclusive cable (connector)
External dimension	130.6 X 23.6 X 126mm (HxWxD)
Weight	About 120g
Accessories	
Tag number label ... 4	Range label ... 4

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	
0	-30~+30V DC, Span 3V min., Elevation -50~50%	±50V	1MΩ (when power on) 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, x Is ≥ 1(V) 100% point should be R, x I <sub>100</sub> ≤ 10 (V)	Current I (mA) when R, x I <sub>1</sub> ≤ 0.5(W)	Specify by customer (satisfy conditions mentioned left)

R<sub>i</sub> : Input resistance    I<sub>s</sub> : Input current span    I : Permissible maximum input current  
I<sub>100</sub> : 100% input current

DH2-□6□\*A

TYPE \_\_\_\_\_

INPUT SIGNAL  
 A : 0~5mA DC            1 : -10~+10V DC  
 B : 0~10mA DC        2 : -1~+1V DC  
 Z : (CUSTOM) Current Signal   0 : (CUSTOM) Voltage Signal

CH1 OUTPUT SIGNAL  
 6 : 1~50V DC

CH2 OUTPUT SIGNAL  
 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   0 : (CUSTOM) Voltage Signal  
       (24mA or less)            (±10V or less)

POWER SUPPLY  
 24V DC±10%

ORDERING INFORMATION  
 (Example) Type Code : DH2-16A\*A  
                   Input Range : 0~5V DC

TABLE 2

Output resistance and permissible load resistance

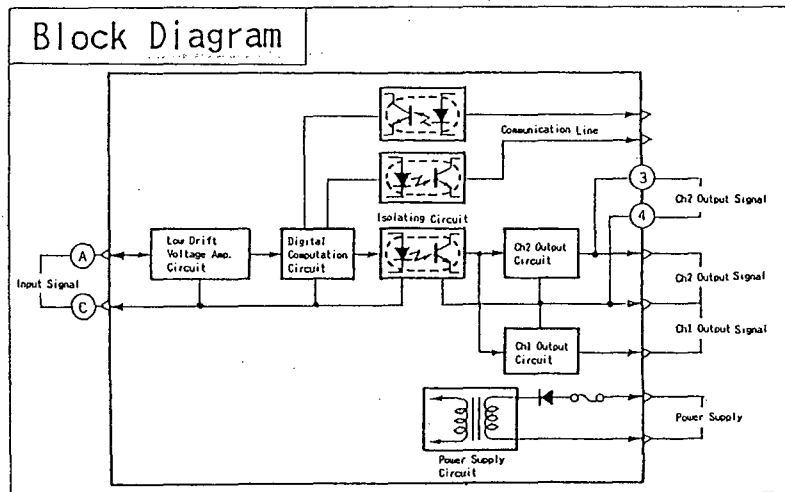
(DC current output type)			
Output signal	Output resistance	Permissible load resistance	
4~20mA DC	5MΩ or less	0~750Ω	
2~10mA DC		0~1500Ω	
1~5mA DC		0~3000Ω	
0~20mA DC		0~750Ω	
0~16mA DC		0~900Ω	
0~10mA DC		0~1500Ω	
0~1mA DC		0~15KΩ	
Others, in case of $I_{..} = 24mA$ or less			$(15/I_{..})\Omega$ or less

$I_{..} = 100\%$  output current value

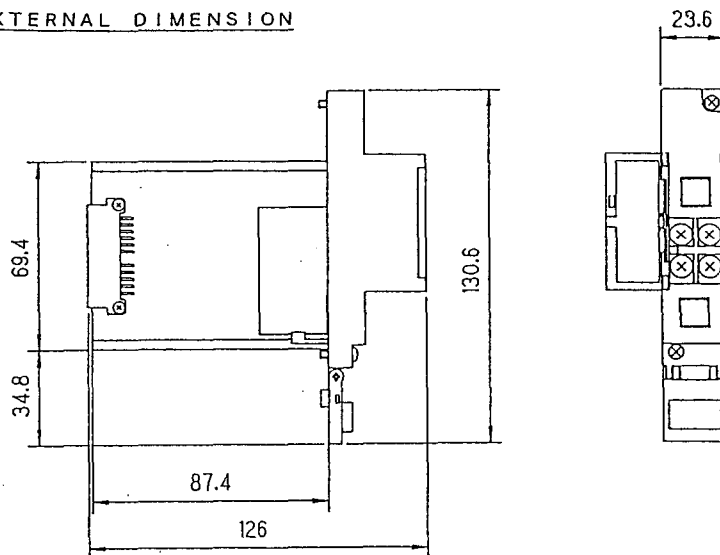
(DC voltage output type)		
Output signal	Output resistance	Permissible load resistance
0~10mV DC	100Ω or less	250KΩ or more
0~100mV DC		
0~1V DC	1Ω or less	2KΩ or more
0~10V DC		10KΩ or more
0~5V DC		2KΩ or more
1~5V DC		2KΩ or more
-10~+10V DC		10KΩ or more
Others, in case of $V_{..} \leq 100mV$ $V_{..} > 100mV$		100Ω or less 1Ω or less

$I_{..} = 100\%$  output voltage value

(Note) At 0~XmA of current output type, output value of 0.5% or less would be out of warranty regarding relative accuracy for Ch1 output.



EXTERNAL DIMENSION



Unit : mm

Subject to change without notice for grade up quality and performance