

JUXTA F Series

General Specifications

Model : FH9A/V

JUXTA

Linearizer

1. GENERAL

This signal conditioner converts nonlinear signals generated by analyzers and noise meters, etc., to linear current or voltage signals.

- Incorporation of one-chip microcomputer provides high efficiency and superior performance.
- Use of Handy Terminal allows easy on-site zero and span adjustment, and I/O monitoring.

2. SPECIFICATIONS

IO Specifications	
Input signal	1~5VDC (non linear)
Input resistance	1M Ω (100k Ω when power off)
Input computation function	Polygonal lines approximation
Polygonal point setting conditions	-10% \leq (X ₀ ~X ₃₁) \leq 110% -10% \leq (Y ₀ ~Y ₃₁) \leq 110% X ₀ <X ₁ <... X ₃₀ <X ₃₁ Y ₀ <Y ₁ <... Y ₃₀ <Y ₃₁ X ₀ ~X ₃₁ : Input polygonal point, Y ₀ ~Y ₃₁ : Output polygonal point
Permissible applied voltage	\pm 9V DC
Output signal	DC current or voltage signal
Zero point adjustment range	\pm 10% of span
Span adjustment range	\pm 10% of span
Standard performance	
Precision rating	\pm 0.1% of span (when polygonal line gain is 1 max)
Response speed	200ms 63% response (10~90%)
Insulation resistance	100M Ω min (at 500V DC) between input-output, input-power supply and 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: -40~70°C, 5~95% RH (no condensation)
Power supply voltage	24V DC \pm 10% (ripple : 10% P-P max)
Effect of power supply voltage fluctuation	\pm 0.1% max of span per 24V DC \pm 10% fluctuation
Effect of change in ambient temperature	\pm 0.2% max of span per 10°C change in temperature
Current dissipation	24V DC 85mA (FH9A), 50mA (FH9V)
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 24 x 127 mm (h x w x d)
Weight	130g
Accessories	
Tag number label : x1	
Mounting blocks: x2	M4 mounting screws: x2

FH9□-□□*B

TYPE NO.

OUTPUT SPECIFICATION

A: Current

V: Voltage

INPUT SIGNAL

6: 1~5V DC

OUTPUT SIGNAL

FH9A

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)

FH9V

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

24V DC±10%

OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE

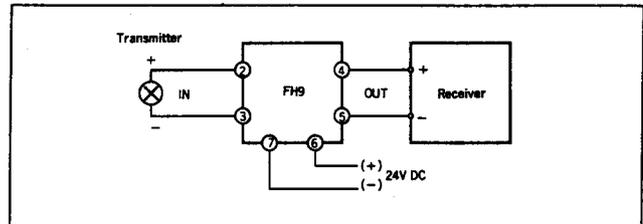
FH9A (DC Current Output)		
Output Signal	Output Resistance	Permissible Load Resistance
4~20mA DC	5MΩ min	0~750Ω
2~10mA DC		0~1500Ω
1~5mA DC		0~3000Ω
0~20mA DC		0~750Ω
0~16mA DC		0~900Ω
0~10mA DC		0~1500Ω
0~1mA DC		0~15kΩ
Others where I ₁₀₀ =24mA max		

I₁₀₀ : 100% output current

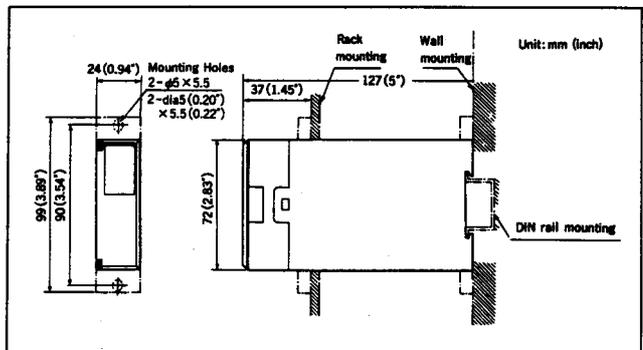
FH9V (DC Voltage Output)		
Output Signal	Output Resistance	Permissible Load Resistance
0~10mV DC	100Ω max	250kΩ min
0~100mV DC		250kΩ min
0~1V DC	1Ω max	2kΩ min
0~10V DC		10kΩ min
0~5V DC		2kΩ min
1~5V DC		2kΩ min
-10~+10V DC		10kΩ min
Others where V ₁₀₀ =24mA max	V ₁₀₀ ≤ 100mV	100Ω max
	V ₁₀₀ > 100mV	1Ω max

V₁₀₀ : 100% output voltage

WIRING DIAGRAM



EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance

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