

# JUXTA F Series

## General Specifications

Model : FA1A/V

JUXTA

Distributor

### 1. GENERAL

This distributor for use to 2-wire transmitter provides functions of distributor and signal isolation conversion. The instrument converts 4~20mA DC signals to current or voltage signals.

### 2. SPECIFICATIONS

IO Specifications	
Input signal	4~20mA DC
Input resistance	250Ω
Permissible applied voltage	40mA max
Transmitter power supply voltage	26.5±1.5V DC (with current limit circuit of 25-35mA)
Permissible conductor resistance.....	$RL \leq (20\text{-minimum transmitter operating voltage})V/0.02A (\Omega)$
Output signal	DC current or voltage signal
Zero point adjustment range	±1% of span
Span adjustment range	±5% of span
Standard performance	
Precision rating	±0.1% of span
Response speed	150ms 63% response (10~90%)
Insulation resistance	100MΩ 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 ±10% (ripple inclusion: 10% P-P max)
Effect of power supply voltage fluctuation	±0.1% max of span per 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 110mA (FA1A), 75mA (FA1V)
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

FA1□-A□\*B

TYPE NO.

OUTPUT SPECIFICATION

A: Current

V: Voltage

INPUT SIGNAL

A: 4~20mA DC

Transmitter power supply: 25~28V DC

OUTPUT SIGNAL

FA1A

FA1V

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 max)

(±10V max)

POWER SUPPLY

24V DC±10%

OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE

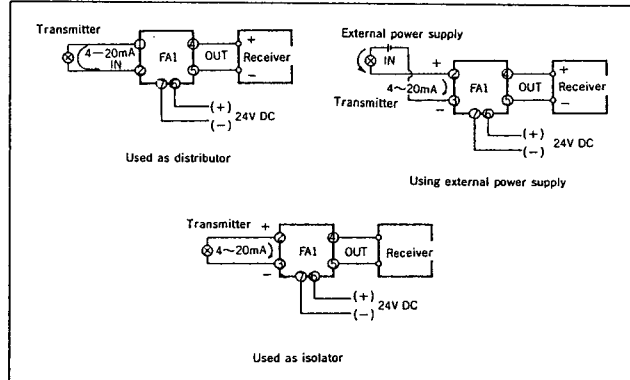
FA1A (DC Current Output)		
Output Signal	Output Resistance	Permissible Load Resistance
4~20mA DC	5MΩ min	0~750Ω
2~10mA DC		0~1500Ω
1~5mA DC		0~3000Ω
0~20mA DC		0~750Ω
0~16mA DC		0~900Ω
0~10mA DC		0~1500Ω
0~1mA DC		0~15kΩ
Others where I <sub>100</sub> =24mA max		

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

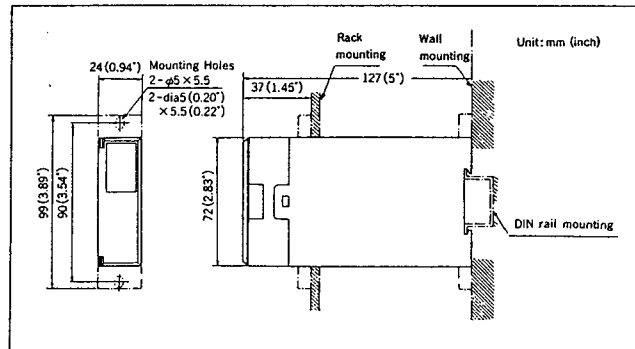
FA1V (DC Voltage Output)		
Output Signal	Output Resistance	Permissible Load Resistance
0~10mV DC	100Ω max	250kΩ min
0~100mV DC		2kΩ min
0~1V DC	1Ω max	10kΩ min
0~10V DC		2kΩ min
0~5V DC		2kΩ min
1~5V DC		10kΩ min
-10~+10V DC		10kΩ min
Others where V <sub>100</sub> =24mA max	V <sub>100</sub> ≤ 100mV	250kΩ min
	V <sub>100</sub> > 100mV	10kΩ min

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

WIRING DIAGRAM



EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance