JUXTA F Series General Specifications

Model FQ2P
Analog / Pulse Transmitter

JUXTA

1. GENERAL

Model FQ2P Analog/Pulse Transmitter, μP built-in type, converts DC voltage or current signal into pulse train signal.
Change of input/output range, settings of pulse width and output low cut point, adjustment of zero span and monitoring of input/output can easily be mde 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)
Output signal	$0 \sim F_{100}$ Hz $[0 \leqq F_0 \leqq \frac{F_{100}}{2}]$ $[0.001\text{Hz} \leqq F_{100} \leqq 1000\text{Hz}]$ F_0 = 0% output frequency F_{100} = 100% output frequency
Low output cut point	Variable range : $0.0001\text{HZ} \sim F_{100}$Hz OHz is output when output is less than output low cut point
Output pulse width	Duty -50±10% On pulse fixed time : 0.1~500ms Off pulse fixed time : 0.1~500ms
Max. permissible load	Open collector : 30V DC/200mA No contact point AC/DC switch : 240V AC/200mA
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	200ms 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 output~input, output~power supply 500V AC/1 minute between input~power source
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	24V DC±10% (ripple: 10%P~P max)
Effect of power source voltage fluctuation	Less than ±0.1% of span per 24V DC±10% fluctuation
Effect of ambient temperature change	Less than ±0.2% of span per 10°C change
Current dissipation	24V DC 65mA
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	72x24x127mm (HxWxD)
Weight	130g
Accessories	
Tag number label ... 1 Mounting block 2	Range label ...1 M4 mounting screw ...2

FQ2P－□□＊A

Type

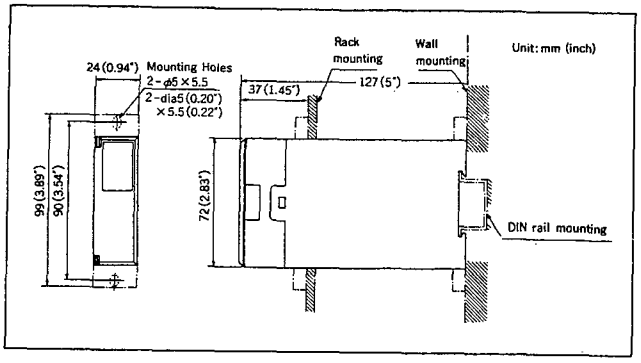
Input Signal

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

1： Open Collector
3： Non Contact AC/DC Switch

EXTERNAL DIMENSION



WIRING DIAGRAM

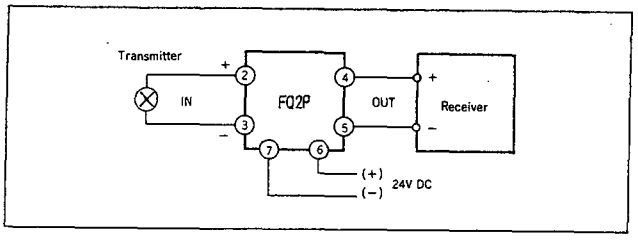


TABLE 1

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

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

Subject to change without notice for grade up quality and performance