JUXTA F Series General Specifications

Model FQ2A/V PULSE/ANALOG TRANSMITTER

1. GENERAL

Model FQ2A/V Pulse/Analog Transmitter, μP built-in type, converts pulse train signals into various types of current or voltage signals.

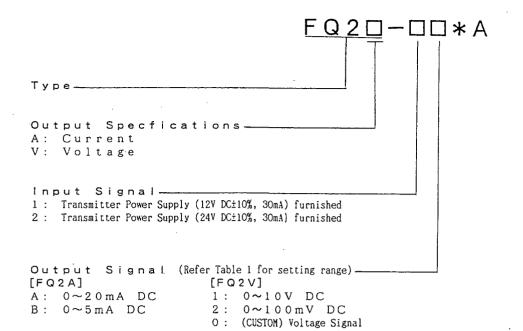
- Built-in 12V or 24V power supply to pulse transmitter.
- Input pulses include current pulse, voltage pulse, non-voltage contact and open collector contact.
- Change of input/output ranges, setting of input pulse width and input low-cut point, adjustment of zero span and monitoring of input/output can easily be made in the field by handy terminal.

2. SPECIFICATIONS

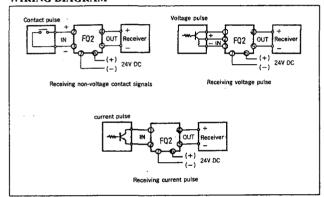
	ut & Output			
Input signal $F_0 \sim F_{100} Hz$ (OHz $\leq F_0 \leq F_{100} / 2Hz$) $F_0 = 0\%$ input frequency				
	$(0.1 \text{Hz} \leq F_{1.0.} \leq 10 \text{KHz})$ $F_{1.0.} = 100\%$ input frequency			
Input resistance	[current pulse input] 200Ω , 500Ω , $1K\Omega$			
	[voltage pulse input] 10KΩ minimum			
Input low-cut point	Setting range $0.01 \text{Hz} \sim F_{100} \text{Hz}$ $F_{100} = 100\%$ input frequency			
	Below input low cut point corresponds to OHz output			
Pulse height	Lo level (VL) -1~8V			
	Hi level (VH) 2∼50V			
Input pulse width	Duty is 50±30% max. when 100% input			
Output signal	DC voltage or current signal See Table 1			
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	Pulse period x 2 + 50ms 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 input~output, input~power supply			
500V AC/1 minute between output~power source				
Ambient temperature &	Normal operating condition: 0~50°C, 5~90%RH			
humidity	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	Less than ±0.1% of span per fluctuation of 24V DC±10%			
voltage fluctuation	·			
Effect of ambient	Less than ±0.2% of span per change of 10°C			
temperature change				
Current dissipation				
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			
	essories			
Tag number label 1	Range label1			
Mounting block 2	M4 mounting screw2			



GS JF71-01E 3rd Edition : Sep. 2004(KP)



WIRING DIAGRAM



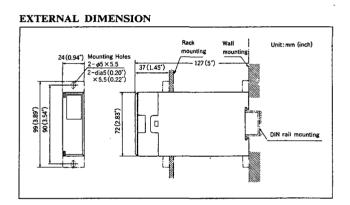


TABLE 1

Output	Output Range Setting	Output	Permissible
Type		Resistance	Load Resistance
1	0~10V DC Span 1V min., Elevation 0~50%	lΩ maximum	10KΩ min.
	where accuracy limit exists in span less than 2V		
2	O~100mV DC Span 10mV min., Elevation 0~50%	100Ω maximum	250KΩ minimum
1	where accuracy limit exsits in span less than 20mV		
0	*manufacture available range	lΩ or	10KΩ or
	-10 \sim +10V DC Span 10mV min., Elevation -50 \sim 50%	.1000Ω maximum	250KΩ minimum
A	O∼ 5mA DC, Span 1mA min., Elevation 0∼50%		
	where accuracy limit exists in span less than 2mA		
В	0~20mA DC, Span 4mA min., Elevation 0~50%	500KΩ minimum	(15/OUT,)Ω max.
	where accuracy ;imit exists in span less than 8mA		