ORDERING INFORMATION

Model : JRP2

PLEASE FILL IN THIS SECTION	FACTORY USE ONLY		
		↓ ↓	
Model	Job No.	Approved by: (Sales office)	
Company	Ser No. –		
Name	Sales	Issued by: (Sales office)	
P/O No.			

SOFTWARE SETTING Fill in blank sections or mark \Box with \checkmark . Standard settings will be used if not otherwise specified.

ITEM	SET VALUE	STANDARD	COMMENTS	
INPUT TYPE	 Open collector Voltage pulse RS-422 line driver 	Open collector		
PULSE SENSING (voltage pulse only)	Capacitor coupled	DC coupled	Choose from the list to the left for the voltage pulse input. For the capacitor coupling, specify the detecting level to '0V.'	
PULSE AMPLITUDE (voltage pulse only)	Vp-p	N/A	They are required to accurately understand the input waveform. The maxi- mum voltage applicable across the input terminals is 50V.	
DC OFFSET (voltage pulse only)	V	N/A		
DETECTING LEVEL (voltage pulse only)	V	N/A	Choose within 0 to 5V. To specify refer to the "DETECTING LEVEL" and confirm it. If not specified, the factory will choose an appropriate value based on th supplied information on pulse sensing, pulse amplitude and DC offset.	
NOISE FILTER (voltage pulse & open collector only)	 High Low No filter Please refer to the comments and the table to the right. 	Low	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
INPUT ZERO FREQUENCY fz	Hz	0 Hz	Specify the frequency for 0% input. -200 kHz (200 kHz in the reverse direction) \leq fz < fs	
INPUT SPAN FREQUENCY fs	Hz	1000 Hz	Specify the frequency for 100% input. Min. 10% of the selected frequency range value required. fz < fs ≤ Max. value of the selected frequency range Max. 200 kHz (forward direction)	

ITEM	SET VALUE	STANDARD	COMMENTS		
LOW-END	Hz	0 Hz	Choose within the input range (fs – fz). The transmitter forcibly provides		
CUTOUT			an output equivalent to 0 Hz input.		
			The minimum increments used to determine the low-end cutout frequency		
			depend upon frequency ranges.		
			FREQUENCY RANGE MIN. INCREMENTS		
	Please refer to the comments and the		100 kHz (-200 to +200 kHz) 10 Hz		
	table to the right.		10 kHz (-10 to +10 kHz) 1 Hz		
			$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
			10 Hz (-10 to +10 Hz) 1 mHz		
			1 Hz (-1 to +1 Hz) 0.1 mHz		
			100 mHz (-100 to +100 mHz) 0.01 mHz		
			<u>10 mHz (-10 to +10 mHz)</u> 0.001 mHz		
LOW-END	HZ	1 % of each	Choose from the selectable range shown below.		
		frequency range	It is invalid, when the deadband is set to U Hz.		
DEADBAND			FREQUENCY RANGE MIN. INCREMENTS SELECTABLERANGE		
(U HZ to 5% of the			10 kHz (-200 t0 +200 kHz) 10 Hz 10 t0 500 kHz 10 kHz (-10 to +10 kHz) 1 Hz 0 to 500 Hz		
each frequency			1 kHz (-1 to +1 kHz) 0.1 Hz 0 to 50.0 Hz		
range)	See min. Increments in the com-		100 Hz (-100 to +100 Hz) 0.01 Hz 0 to 5.00 Hz		
			10 Hz (-10 to +10 Hz) 1 mHz 0 to 500 mHz		
	column.		1 HZ (-1 T0 +1 HZ) U.1 MHZ U T0 5U.0 MHZ		
			10 mHz (-100 to +100 mHz) 0.01 mHz 0 to 5.00 mHz 10 mHz (-10 to +10 mHz) 0.001 mHz 0 to 0.500 mHz		
ALARM MODE	🖵 High alarm	High alarm	Choose from the list to the left.		
	Low alarm				
	🖵 No alarm				
ALARM SETPOINT	%	100.00%	Specify within -15.00 to +115.00% if High/Low alarm is selected.		
			(% of the input range (fs – fz))		
ALARM DEAD-	%	1.00%	Specify within 0.00 to 20.00% if High/Low alarm is selected.		
BAND			(% of the input range (fs – fz))		
ALARM ON DELAY	Sec.	3 sec.	Specify the delay time for the alarm trip after the power is turned on, within		
TIME AT START UP			2.0 to 1000.0 sec. if High/Low alarm is selected.		

LINEARIZATION Fill in the table only when the linearization is required. Refer to the example below.

INPUT (%)	OUTPUT (unit :)	INPUT (%)	OUTPUT (unit :)
X (01)	Y (01)	X (09)	Y (09)
X (02)	Y (02)	X (10)	Y (10)
X (03)	Y (03)	X (11)	Y (11)
X (04)	Y (04)	X (12)	Y (12)
X (05)	Y (05)	X (13)	Y (13)
X (06)	Y (06)	X (14)	Y (14)
X (07)	Y (07)	X (15)	Y (15)
X (08)	Y (08)	X (16)	Y (16)

EXAMPLE

Output data in % is acceptable.

E/01000 E							
X (01)	0.00 (%)	Y (01)	4.00 (mA)	X (09)	80.00 (%)	Y (09)	17.58 (mA)
X (02)	10.00	Y (02)	6.37	X (10)	90.00	Y (10)	18.81
X (03)	20.00	Y (03)	8.42	X (11)	100.00	Y (11)	20.00
X (04)	30.00	Y (04)	10.25	X (12)		Y (12)	
X (05)	40.00	Y (05)	11.92	X (13)		Y (13)	
X (06)	50.00	Y (06)	13.47	X (14)		Y (14)	
X (07)	60.00	Y (07)	14.92	X (15)		Y (15)	
X (08)	70.00	Y (08)	16.28	X (16)		Y (16)	

■ DETECTING LEVEL (voltage pulse and two-wire current pulse)

Determine the appropriate detecting level referring to the flow chart below. Input type is for voltage pulse.



*1. Rounded off to one decimal place.

Table 1	
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SW	PULSE AMPLITUDE	SENSITIVITY SCALE
0	50 – 100 Vp-p	1/20
1	25 – 50 Vp-p	1/10
2	10 – 25 Vp-p	1/5
3	5 – 10 Vp-p	1/2
4	1 – 5 Vp-p	1
5	0.5 – 1 Vp-p	5
6	0.1 – 0.5 Vp-p	10
7	Open collector	1

A specific sensitivity scale is applied according to the pulse amplitude setting. The scaled input voltage is then compared to the preset detecting level.

With DC coupling, the scaled H level voltage must be higher than the detecting level so that the pulse state is accurately detected.

• Setting Examples (DC Offset = Pulse Amplitude / 2)

PULSE AMPLITUDE (Vp-p)	AMPLITUDE RANGE (Vp-p)	DETECTING LEVEL (V)
50	50 – 100	1.3
50	25 – 50	2.5
30	25 – 50	1.5
25	10 – 25	2.5
15	10 – 25	1.5
10	5 – 10	2.5
7.5	5 – 10	1.9
5	1 – 5	2.5
3.5	1 – 5	1.8
2	1 – 5	1
1	0.5 – 1	2.5
0.5	0.1 – 0.5	2.5

The maximum voltage applicable across the input terminals is 50V. For a voltage pulse input of 100 Vp-p amplitude, the DC offset must be set to 0V.