ORDERING INFORMATION Model : JRQ2

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 ❑ with ✔. 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	Choose from the list to the left.
PULSE AMPLITUDE (voltage pulse only)	V p-p	N/A	They are required to accurately understand the input waveform. The maximum 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 the supplied information on pulse amplitude and DC offset.
NOISE FILTER (voltage pulse only)	❑ High ❑ Low ❑ No filter	No filter	High noise filter must be specified for ±10 Hz or lower ranges. Low noise filter must be specified for ±500 Hz or higher ranges.
COUNT MODE	❑ Counts Phase B, one edge only (1 count / 1 input pulse) ❑ Counts Phase B, both edges (2 counts / 1 input pulse) ❑ Counts Phase A and B, both edges (4 counts / 1 input pulse)	Phase B, one edge only	Refer to Page 3 for more information. Input counts do not match the number of input pulses when 'Counts Phase B, both edges' or 'Counts Phase A and B, both edges' is selected.
INPUT ZERO COUNT Cz	Counts	0	Specify the count value for 0% input. -99999999 (99999999 in the reverse direction) ≤ Cz < Cs
INPUT SPAN COUNT Cs	Counts	1000 counts	Specify the count value for 100% input. fz < fs ≤ 99999999 (99999999 in the forward direction)
ALARM MODE	❑ High alarm ❑ Low alarm ❑ No alarm	High alarm	Choose from the list to the left.
ALARM SETPOINT	%	100.00%	Specify within -15.00 to +115.00% if High/Low alarm is selected.
ALARM DEADBAND	%	1.00%	Specify within 0.00 to 20.00% if High/Low alarm is selected.
ALARM ON DELAY TIME AT START UP	sec.	3 sec.	Specifiy the delay time for the alarm trip after the power is turned on, within 2.0 to 1000.0 sec. if High/Low alarm is selected.
INPUT COUNT AT POWER OFF	❑ Not held (Cold Start) ❑ Held (Hot Start)	Not held	Specify either the last count before the power has been removed should be held or not (reset to zero).

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

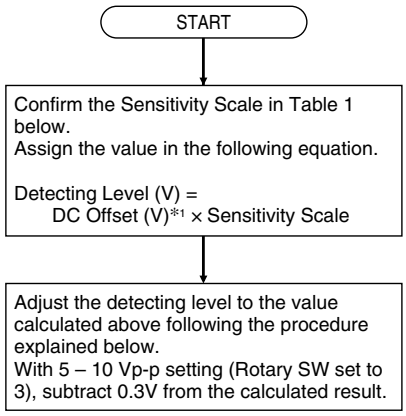
INPUT (count)		OUTPUT (unit :)		INPUT (count)		OUTPUT (unit :)	
X (01)		Y (01)		X (09)		Y (09)	
X (02)		Y (02)		X (10)		Y (10)	
X (03)		Y (03)		X (11)		Y (11)	
X (04)		Y (04)		X (12)		Y (12)	
X (05)		Y (05)		X (13)		Y (13)	
X (06)		Y (06)		X (14)		Y (14)	
X (07)		Y (07)		X (15)		Y (15)	
X (08)		Y (08)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

[EXAMPLE]

X (01)	0 (count)	Y (01)	4.00(mA)	X (09)	80 (count)	Y (09)	17.58(mA)
X (02)	10	Y (02)	6.37	X (10)	90	Y (10)	18.81
X (03)	20	Y (03)	8.42	X (11)	100	Y (11)	20.00
X (04)	30	Y (04)	10.25	X (12)		Y (12)	
X (05)	40	Y (05)	11.92	X (13)		Y (13)	
X (06)	50	Y (06)	13.47	X (14)		Y (14)	
X (07)	60	Y (07)	14.92	X (15)		Y (15)	
X (08)	70	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

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.
The scaled H level voltage must be higher than the detecting level so that the pulse state is accurately detected.

[SETTING EXAMPLE]

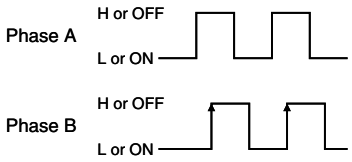
(DC Offset = Pulse Amplitude / 2)

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

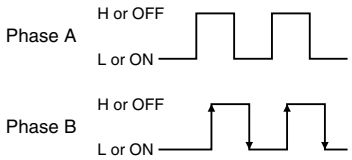
■ COUNT MODE (ITEM 11)

Three count modes are selectable to specify how the JRQ2 judges valid counts in the input waveform.

• 1 Count per Pulse (one edge, Phase B)
Counts are valid at the one pulse edge of Phase B, as indicated with arrows.



• 2 Counts per Pulse (both edges, Phase B)
Counts are valid at the both pulse edges of Phase B, as indicated with arrows.



• 4 Counts per Pulse (both edges, Phase A and B)
Counts are valid at the both pulse edges of Phase A and B, as indicated with arrows.