

# ORDERING INFORMATION

# Model : 73VR3100

## PLEASE FILL IN THIS SECTION



Model
Company
Name
P/O No.

## M-SYSTEM USE ONLY



Job No.	Inspected by:
Ser No.	—
Sales	Inspected by:

Specify in the table below the R3 Series I/O and network modules' model numbers to be mounted onto the 73VR3100. Selectable I/O modules and the network modules are listed in the next page.

Possible storing rates depend upon the I/O module types. Please refer to Table 1.

Please refer to the data sheets for respective I/O modules for detailed specifications of these modules.

### CAUTIONS:

- (1) Three (3) types of storing rates, 20 msec., 0.1 sec. and 0.5 sec., are selectable with the 73VR3100. With 20 msec. rate, the maximum input channel is limited to 8 analog inputs and 8 discrete inputs, at the total of 16 inputs. In this case, module positions are also fixed as follows: Analog input modules in the slots #1 and #2, Discrete input modules in the slot #3.
- (2) The total current consumption of I/O modules must be at the maximum of 560 mA (continuous).
- (3) The maximum number of discrete output modules is limited to two (2) modules.
- (4) Add the suffix code 'W' at the end of I/O module's model number described in Table 1 when a network module is used. Otherwise add 'S.'
- (5) The network module, if chosen, must be mounted in the slot #4.
- (6) For those slots where you do not need I/Os, please specify 'None' or the model number of Blank Filler Module, R3-DM.
- (7) Interface I/O module (Gateway module)

### Interface I/O module (Without Remote Mode)

Data allocation, CC-Link setting	SLOT 1	SLOT 2	SLOT 3	SLOT 4
Data allocation 1, CC-Link Ver.1.10	Mountable in any slot			
Data allocation 2, CC-Link Ver.2.00, Cyclic expansion 2 fold	G	--	I	I
	I	G	--	I
	I	I	G	--
Data allocation 3, CC-Link Ver 2.00, Cyclic expansion 4 fold	G	--	--	I
	I	G	--	--
Data allocation 4, CC-Link Ver.2.00, Cyclic expansion 4 fold	G	--	--	--

G: Gateway module mountable, I: I/O module mountable, --: Vacant slot, use of blank filler module is recommended

### Interface I/O module (With Remote Mode)

Data allocation, CC-Link setting	SLOT 1	SLOT 2	SLOT 3	SLOT 4
Data allocation 4, CC-Link Ver.2.00, Cyclic expansion 4 fold	I	I	I	G
Data allocation 5, CC-Link Ver.2.00, Cyclic expansion 8 fold	I	I	G	--
Data allocation 6, CC-Link Ver.2.00, Cyclic expansion 8 fold	I	G	--	--
Data allocation 7, CC-Link Ver.2.00, Cyclic expansion 8 fold	G	--	--	--

G: Gateway module mountable, I: I/O module mountable, --: Vacant slot, use of blank filler module is recommended

\* Interface I/O modules cannot be used in dual communication mode. Using with Network module is not available.

### I/O MODULE POSITIONS

SLOT NO.	I/O MODLE MODEL NO.
SLOT 1	
SLOT 2	
SLOT 3	
SLOT 4	

### INSPECTION REPORT

When an inspection report (test certificate) is ordered, that for the 73VR3100 without I/O module descriptions is provided.

Those for I/O modules must be ordered separately (fare-paying service).

## ■ I/O MODULE SELECTIONS

R3-□□

### MODEL

**SS4** : DC current input, 4 ch.  
**SS8** : DC current input, 8 ch.  
**SS8N** : DC current input, 8 ch., non-isolated  
**SS16N** : DC current input, 16 ch., non-isolated  
**SV4** : DC voltage input, 4 ch.  
**SV4A** : DC voltage input, 4 ch., narrow span  
**SV4B** : DC voltage input, 4 ch., wide span  
**SV4C** : DC voltage input, 4 ch., wide span  $\pm 50V$   
**SV8** : DC voltage input, 8 ch.  
**SV8A** : DC voltage input, 8 ch., narrow span  
**SV8B** : DC voltage input, 8 ch., wide span  
**SV8C** : DC voltage input, 8 ch., wide span  $\pm 50V$   
**SV8N** : DC voltage input, 8 ch., non-isolated  
**SV16N** : DC voltage input, 16 ch., non-isolated  
**TS4** : Thermocouple input, 4 ch.  
**TS8** : Thermocouple input, 8 ch.  
**RS4** : RTD input, 4 ch.  
**RS8** : RTD input, 8 ch.  
**MS4** : Potentiometer input, 4 ch.  
**MS8** : Potentiometer input, 8 ch.  
**US4** : Universal input, 4 ch.  
**DS4** : 4 – 20mA input with excitation, 4 ch.  
**DS4A** : 4 – 20mA input w/exc. (switch provided), 4 ch.  
**DS8N** : 4 – 20mA input with excitation, 8 ch., non-isolated  
**CT4** : CT (AC current) input, 4 ch.  
**CT4A** : AC current input, 4 ch., clamp-on current sensor CLSA use  
**CT4B** : AC current input, 4 ch., clamp-on current sensor CLSB use  
**CT4C** : AC current input, 4 ch., clamp-on current sensor CLSB-R5 use  
**CT8A** : AC current input, 8 ch., clamp-on current sensor CLSA use  
**CT8B** : AC current input, 8 ch., clamp-on current sensor CLSB use  
**CT8C** : AC current input, 8 ch., clamp-on current sensor CLSB-R5 use  
**PT4** : PT (AC voltage) input, 4 ch.  
**CZ4** : Zero-phase current input, 4 ch.  
**PA2** : Encoder input, 2 ch. (speed and position)  
**PA4** : High speed pulse input, 4 ch.  
**PA4A** : High speed totalized pulse input, 4 ch.  
**PA4B** : Low speed totalized pulse input, 4 ch.  
**PA8** : Totalized pulse input, 8 ch.  
**PA16** : Totalized pulse input, 16 ch.  
**WTU** : AC power input, 2 ch., clamp-on current sensor CLSE use \*5  
**WT4** : AC power input, 4 points  
**WT4A** : AC power input, 4 ch., clamp-on current sensor CLSA use  
**WT4B** : AC power input, 4 ch., clamp-on current sensor CLSB use  
**LC2** : Strain gauge input, 2 ch.  
**AS4** : DC current input alarm, 4 ch.  
**AS8** : DC current input alarm, 8 ch.  
**AV4** : DC voltage input alarm, 4 ch.  
**AV8** : DC voltage input alarm, 8 ch.  
**AD4** : 4 – 20mA input alarm w/exc., 4 ch.  
**AT4** : Thermocouple input alarm, 4 ch.  
**AR4** : RTD input alarm, 4 ch.  
**DA16** : Optical isolation discrete input, 16 ch. (13V DC)  
**DC16** : Relay output, 16 ch. \*1  
**DC32A** : Open collector output, 32 ch. \*1  
**DAC16A** : Discrete input output module (Di 8 ch., Do 8 ch.) \*2  
**DM** : Blank filler module \*3

### COMMUNICATION MODE

**S** : Single  
**W** : Dual \*4

## ■ I/O MODULE WITH CONNECTOR TERMINAL

R3Y-□□

### MODEL

**SS8** : DC current input, 8 ch.  
**SS8N** : DC current input, 8 ch., non-isolated  
**SV8** : DC voltage input, 8 ch.  
**SV8N** : DC voltage input, 8 ch., non-isolated  
**SV16N** : DC voltage input, 16 ch., non-isolated  
**RS8** : RTD input, 8 ch.  
**MS8** : Potentiometer input, 8 ch.  
**PA16** : Totalized pulse input, 16 ch.  
**DA16** : Optical isolation discrete input, 16 ch. (13V DC)  
**DC16** : Relay output 16 ch. \*1

### COMMUNICATION MODE

**S** : Single  
**W** : Dual \*4

- \*1. Limited to two discrete output modules at the maximum.
- \*2. Limited to one discrete I/O module at the maximum.
- \*3. Communication mode suffix code is not applicable to the blank filler module.
- \*4. Select the /W code when a Network Module is used.
- \*5. Communication Mode 'S' only

## ■ NETWORK MODULE SELECTIONS

R3-□-N

### MODEL

**NC1** : CC-Link (Ver. 1; 16-point analog)  
**NC2** : CC-Link (Ver. 1; 32-point analog)  
**NC3** : CC-Link (Ver. 2)  
**ND1** : DeviceNet (16-point analog)  
**ND2** : DeviceNet (32-point analog)  
**ND3** : DeviceNet (64-point analog)  
**NE1** : Ethernet (Modbus/TCP)  
**NF1** : T-Link (Fuji Electric)  
**NM1** : Modbus  
**NP1** : PROFIBUS-DP  
**NL1** : LONWORKS (16-point analog)

### POWER INPUT

**N** : No power supply

R3-□S

### MODEL

**GC1** : CC-Link (Ver.1.10/Ver.2.00)  
**GD1** : DeviceNet (for 64-point analog signals)  
**GE1** : Modbus/TCP (Ethernet)  
**GM1** : Modbus (RS-485)  
**GFL1** : FL-net (OPCN-2)

### COMMUNICATION MODE

**S** : Single

■ TABLE 1 : STORING RATE

TYPE	STORING RATE		
	20 ms	0.1 s	≥0.5 s
R3-SS4	Y	Y	Y
R3(Y)-SS8	---	Y	Y
R3(Y)-SS8N	---	Y	Y
R3-SS16N	---	Y	Y
R3-SV4	Y	Y	Y
R3-SV4A	Y	Y	Y
R3-SV4B	Y	Y	Y
R3-SV4C	Y	Y	Y
R3(Y)-SV8	---	Y	Y
R3-SV8A	---	Y	Y
R3-SV8B	---	Y	Y
R3-SV8C	---	Y	Y
R3(Y)-SV8N	Y	Y	Y
R3(Y)-SV16N	---	Y	Y
R3-TS4	---	---	Y
R3-TS8	---	---	Y
R3-RS4	---	---	Y
R3(Y)-RS8	---	---	Y
R3-US4	---	---	Y
R3-DS4	Y	Y	Y
R3-DS4A	Y	Y	Y
R3-DS8N	---	Y	Y
R3-CT4	---	---	Y
R3-CT4A	---	---	Y
R3-CT4B	---	---	Y
R3-CT4C	---	---	Y
R3-CT8A	---	---	Y
R3-CT8B	---	---	Y
R3-CT8C	---	---	Y
R3-PT4	---	---	Y
R3-PA2	---	---	Y
R3-PA4	---	---	Y
R3-PA4A	---	---	Y
R3-PA4B	---	---	Y
R3-PA8	---	---	Y
R3(Y)-PA16	---	---	Y
R3-WTU	---	---	Y
R3-WT4	---	---	Y
R3-WT4A	---	---	Y
R3-WT4B	---	---	Y
R3-MS4	Y	Y	Y
R3(Y)-MS8	---	Y	Y
R3-LC2	---	Y	Y
R3-CZ4	---	Y	Y
R3-AS4	Y	Y	Y
R3-AS8	---	Y	Y
R3-AV4	Y	Y	Y
R3-AV8	---	Y	Y
R3-AD4	---	---	Y
R3-AT4	---	---	Y
R3-AR4	---	---	Y
R3(Y)-DA16	Y	Y	Y
R3(Y)-DC16	---	---	Y
R3-DC32A	---	---	Y
R3-DAC16A	---	---	Y

TYPE	STORING RATE		
	20 ms	0.1 s	0.5 s
<b>R3-GC1</b>	---	D	Y
<b>R3-GM1</b>	---	D	Y
<b>R3-GE1</b>	---	D	Y
<b>R3-GD1</b>	---	D	Y
<b>R3-GFL1</b>	---	D	Y

[Legend]

Y = Selectable

--- = Not selectable

D = Display and storing of data is available. Unavailable in the Remote Mode.