DC VOLTAGE OUTPUT MODULE

(8 points, isolated)

MODEL

R3-YV8

BEFORE USE

Thank you for choosing us. Before use, please check contents of the package you received as outlined below. If you have any problems or questions with the product, please contact our sales office or representatives.

■ PACKAGE INCLUDES:

DC voltage output module.....(1)

■ MODEL NO.

Confirm Model No. marking on the product to be exactly what you ordered.

■ INSTRUCTION MANUAL

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures.

POINTS OF CAUTION

■ CONFORMITY WITH EU DIRECTIVES

- The equipment must be mounted inside the instrument panel of a metal enclosure.
- The actual installation environments such as panel configurations, connected devices, connected wires, may affect the protection level of this unit when it is integrated in a panel system. The user may have to review the CE requirements in regard to the whole system and employ additional protective measures to ensure the CE conformity.

■ HOT SWAPPABLE MODULES

• Replacing the module does not affect other modules on the same base. Thus, the module can be replaced while the power is ON. However, replacing multiple modules at once may greatly change live voltage levels. We highly recommend to replace them one by one.

■ GENERAL PRECAUTIONS

 DO NOT set the switches on the module while the power is supplied. The switches are used only for maintenance without the power.

■ ENVIRONMENT

- Indoor use.
- When heavy dust or metal particles are present in the air, install the unit inside proper housing with sufficient ventilation.
- Do not install the unit where it is subjected to continuous vibration. Do not subject the unit to physical impact.
- Environmental temperature must be within -10 to +55°C (14 to 131°F) with relative humidity within 30 to 90% RH in order to ensure adequate life span and operation.

■ WIRING

- Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
- Do not bind these cables together with those in which noises are present. Do not install them in the same duct.

■ AND

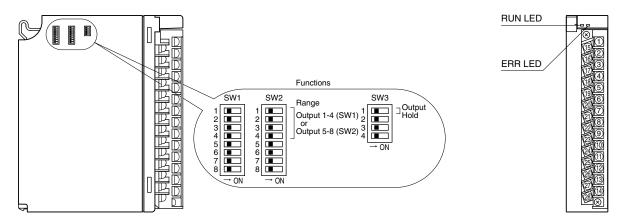
The unit is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

INSTALLATION

Use the Installation Base (model: R3-BSx).

COMPONENT IDENTIFICATION

■ SIDE VIEW



■ SIDE DIP SW

(*) Factory setting

 $\bullet \ \, \textbf{Output Range: SW1, SW2} \ (selectable \ per \ 4 \ channels)$

OUTPL				
OUTPL	RANGE			
1	2	3	4	
OFF	OFF	OFF	OFF	-10 - +10V DC (*)
ON	OFF	OFF	OFF	-5 – +5V DC
OFF	ON	OFF	OFF	1 – +1V DC
ON	ON	OFF	OFF	0-10V DC
OFF	OFF	ON	OFF	0-5V DC
ON	OFF	ON	OFF	1-5V DC
OFF	ON	ON	OFF	0 – 1V DC

• Output Hold: SW3-1

SW	OUTPUT HOLD			
SVV	HOLD (*)	OFF		
SW3-1	OFF	ON		

Note: Be sure to set unused SW1-5 through 1-8, SW2-5 through 2-8, SW3-2 through 3-4 to OFF.

■ STATUS INDICATOR LED

RUN indicator: Bi-color (red/green) LED;

Red when the bus A operates normally; Green when the bus B operates normally; Amber when both buses operate normally.

ERR indicator: Green LED turns on in normal operating

■ FRONT VIEW

conditions.

PC CONFIGURATOR

With configurator software, settings shown below are available. Refer to the software manual of R3CON for detailed operation.

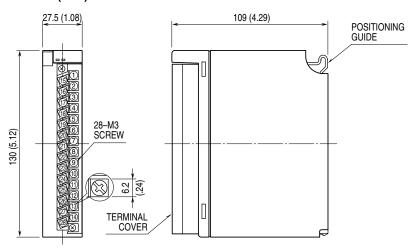
■ CHANNEL INDIVIDUAL SETTING

PARAMETER	AVAILABLE RANGE	DEFAULT SETTING			
Zero Scale	-32000 to +32000	0			
Full Scale	-32000 to +32000	10000			
Zero Adjust	-320.00 to +320.00	0.00			
Full Adjust	-32000 to +32000	1.0000			
Unused	0: Enable	0: Enable			
	1: Disable				

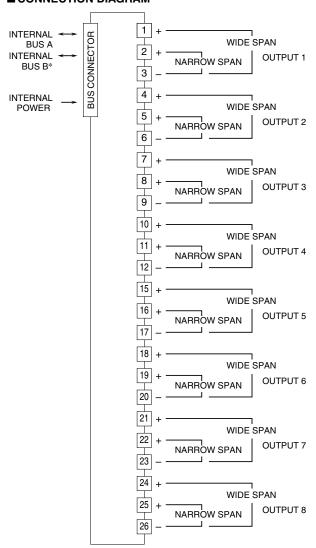
TERMINAL CONNECTIONS

Connect the unit as in the diagram below.

■ EXTERNAL DIMENSIONS unit: mm (inch)



■ CONNECTION DIAGRAM



*For dual redundant communication.

Note: Connect either wide or narrow span terminals for each channel.

■ Wide Span: -10 - +10 V DC, -5 - +5 V DC, 0 - 10 V DC, 0 - 5 V DC, 1 - 5 V DC

■ Narrow Span: -1 - +1 V, 0 - 1 V DC

WIRING INSTRUCTIONS

■ SCREW TERMINAL

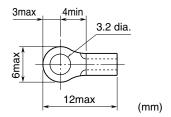
Torque: $0.5 \text{ N} \cdot \text{m}$

■ SOLDERLESS TERMINAL

Refer to the drawing below for recommended ring tongue terminal size. Spade tongue type is also applicable. Solderless terminals with insulation sleeve do not fit.

Applicable wire size: 0.3 - 0.5 mm²

Recommended manufacturer: Japan Solderless Terminal MFG. Co., Ltd., Nichifu Co., Ltd.



FUNCTIONS

■ OUTPUT HOLD or OUTPUT OFF

In normal conditions, the module outputs the signal from the preferred bus A.

When an error is detected, the output is switched to the data from the bus B.

Output Hold

If both are in error, the module holds the signal and stands by until one of the communications recovers.

Output OFF

If both are in error, the module outputs -15 % (or approx. -11.5 V) and stands by until one of the communications recovers.

At the startup, it outputs -15 % (or approx. -11.5 V) until the communication is established and normal data is received.