



Standard Specification Sheet Model: MS2904 MS2900
Chassis-mounting High-level Signal Conditioner with Isolated Dual-output

OVERVIEW



The MS2904 (Isolator) is an instrument to perform conversion of high-level DC input signal into corresponding mutually isolated two channels of DC output signals.

- ▽ Multi-unit-mountable chassis for ease of maintenance and high density installation.
- ▽ Perfect isolation mutually between Input — Output No.1 — Output No.2 — Power line.
- ▽ Fuse protection for power line.

ORDERING INFORMATION

Ordering Code		
MS2904	1	8

SPECIFICATIONS

POWER SECTION

Power Requirement	24V DC ±10%
Power Sensitivity	±0.1% max. of output (@10% variation)
Power Fuse	2.2Ω 1/4W Fuse resistor on power line
Power Consumption	50mA max.

INPUT SECTION

Input Signal (Specify at ① when ordering)	<ul style="list-style-type: none"> ■ 4~20mA DC C1 ■ 1~5V DC V1 ■ 0~1V DC V4 ■ 0~5V DC V5 ■ 0~10V DC V6 ■ ±5V DC W5 ■ ±10V DC W6 ■ Other DC voltage signal X1(□~□)
	Please specify between 200mV to 250V. Specify input signal in parentheses.
Input Resistance	Voltage Input: 1MΩ min. (10kΩ @rated input without power) Current Input: 250Ω (Internal voltage down: 5V)

Allowable Input Voltage	Voltage Input: 30V DC continuous Current Input: 40mA continuous
-------------------------	--

OUTPUT SECTION

Output Signal (Specify at ② when ordering)	1st Output Signal/2nd Output Signal ··· Order Code <ul style="list-style-type: none"> ■ 1~5V DC/1~5V DC V1 ■ 0~5V DC/0~5V DC V5 ■ 0~10V DC/0~10V DC V6 ■ 1~5V DC/4~20mA DC C1 ■ ±5V DC/±5V DC W5 ■ ±10V DC/±10V DC W6 * The above combination only.
Maximum Output Load	Voltage output: 2mA Current output: 300Ω
Zero Adjustment	Approx. ±2% of span (Adjustable by front-accessible trimmer)
Span Adjustment	Approx. ±2% of span (Adjustable by front-accessible trimmer)

PERFORMANCE

Accuracy Rating	±0.1% max. of output span. (25°C ±5°C)
Temperature Effect	±0.2% max. of span (@10°C variation)
Standard Response Time	Approx. 2Hz-3dB
Insulation Resistance	100MΩ min. (@500V DC) Input—Output-1—Output-2—Power
Dielectric Strength	Input—[Output-1, Output-2, Power]: 1500V AC for 1 minute Output-1—Output-2—Power: 500V AC for 1 minute
Surge Withstand Capability	Tested for ANSI/IEEE C37.90.1-1989
Operating Environment	Ambient temperature: 0~50°C Humidity: 90%RH max. (Non-condensation)
Storage Temperature	-10~60°C

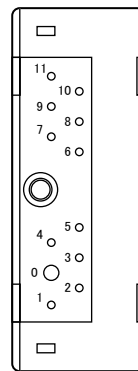
PHYSICAL

Mounting Method	Mountable on chassis (RC2900)
Wiring Method	Wired to chassis (RC2900)
Outer Dimension	W17.5×H48×D65mm (Including socket terminal block and fixing screws.)
Weight	Approx. 70g

MATERIAL

Case	ABS Resin UL94, flame resistant
PC Board	Glass Fabric Epoxy Resin

TERMINAL ASSIGNMENT



Terminal	Signal
①	+ INPUT
②	- INPUT
③	N.C.
④	N.C.
⑤	N.C.
⑥	+ OUTPUT 1
⑦	- OUTPUT 1
⑧	+ OUTPUT 2
⑨	- OUTPUT 2
⑩	+ DC24V
⑪	- POWER

BLOCK DIAGRAM

