



**Standard Specification Sheet Model: MS2910 MS2900**  
**Chassis-mounting Potentiometer Transmitter with Isolated Dual-output**

**OVERVIEW**



The MS2910 is an instrument to amplify mV signal from the sensor outputting the signal corresponding to the variation of displacement resistance value and convert the amplified signal into two channels of mutually isolated DC output signal, while supplying regulated current to the sensor.

- ▽ 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
MS2910 ( ~ ) 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	Variation of resistance value in potentiometer
Span (Specify at ① when ordering)	Within the range from 0~100Ω to 0~10kΩ.
Input Lead-wire Resistance	10Ω max.

**OUTPUT SECTION**

Output Signal (Specify at ② when ordering)	1st Output Signal/2nd Output Signal ** Order Code ■ 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 * The above combination only.
Maximum Output Load	Voltage output: 2mA Current output: 300Ω
Zero Adjustment	Approx. 0~30% of span (Adjustable by front-accessible trimmer)
Span Adjustment	Approx. 70~100% of span (Adjustable by front-accessible trimmer)

**PERFORMANCE**

Accuracy Rating	±0.2% 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

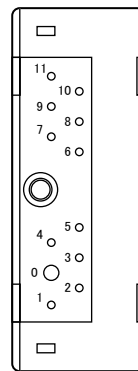
**PHYSICAL**

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	A POT
②	B POT
③	N.C.
④	C POT
⑤	N.C.
⑥	+ OUTPUT 1
⑦	- OUTPUT 1
⑧	+ OUTPUT 2
⑨	- OUTPUT 2
⑩	+ DC24V
⑪	- POWER

**BLOCK DIAGRAM**

