OVERVIEW

This is chassis-mounting potentiometer transmitter with dual-output that detects the variation of resistance with potentiometer and converts it into any desired standard process signal.

- ▽ Anti-humid coatings on PCB are standard for improved environmental protection.
- ▽ Multiple installations on chassis provide ease of maintenance and high-density population.
- ▽ Self pop-up screws on chassis provide ease of wiring.
- ▽ Fuse on DC power line is installed standard.

ORDERING INFORMATION

Ordering Code	Standard Price
MS3910—8□□ ①	OPEN

SPECIFICATIONS

POWER SECTION

Power Requirement	24V DC±10%
Power Sensitivity	±0.1% of span max. @10% variance
Power Line Fuse	300mA fuse is installed, (standard)
Power Consumption	55mA max.

INPUT SECTION

Input Range	Between 0～100Ω to 0～10KΩ.
Measurement Voltage	Approx. 0.5V
Allowable Input Lead-Wire Resistance	10%F.S. /wire max. (Resistance of each line shall be the same.)

OUTPUT SECTION

Output Signal (Specify at ① when ordering)	Out-1/Out-2 ····· 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 Combinations of two output signals are limited to the above.
Maximum Output Load	Voltage output: 2mA max. Current output: 300Ω max.
Zero Adjustment	Approx. 0～30% of span (Adjustable by front-access trimmer)
Span Adjustment	Approx. 70～100% of span (Adjustable by front-access trimmer)

PERFORMANCE

Accuracy Rating	±0.2%/F.S (25℃±5℃)
Temperature Effect	±0.2% of span @10℃ variance
Response Time	170msec max. (0→90% @100% step input)
CMRR	100dB min. (500V AC, 50/60Hz)
Isolation	Across Input, Out-1, Out-2 and Power input mutually
Insulation Resistance	100MΩ min. (@500V DC) Across Input, Out-1, Out-2 and Power input mutually
Dielectric Strength	Across Input and other ports: 1500V AC for 1 minute Across Out-1, Out-2, Power input mutually: 500V AC for 1 minute
Surge Withstand Capability	Tested for ANSI/IEEE C37.90.1-1989
Operating Environment	Ambient temperature: 0～55℃ Humidity: 90% max. (Non-condensation)
Storage Temperature	−10～60℃

PHYSICAL

Installation	Installed on mounting base (RC3900-□□AI)
External Connection	Wired to mounting base (RC3900-□□AI)
Dimension	W19.5×H53×D84mm
Weight	Approx. 70g

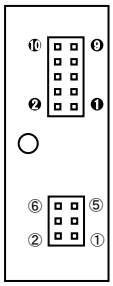
MATERIAL

Housing	ABS Resin (UL94V-0)
PC Board	Glass Fabric, Epoxy Resin (CEM-3)
Anti-humidity Coating	HumiSeal 1A27NS (Polyurethane)

ADDITIONAL

Other Options	Please consult our sales representatives for the availability of the following options before ordering: 〈Items〉 ····· 〈How to specify〉 ■ Change response frequency ····· Fc=□□□Hz (Up to 200Hz) ■ Change response time ··· Tc=□□□sec (Up to 2msec @90%)

TERMINAL ASSIGNMENT



PIN	SIGNAL	PIN	SIGNAL
①	A POT	❶	+ OUTPUT 1
②	B POT	❷	− OUTPUT 1
③	N. C.	❸	+ OUTPUT 2
④	N. C.	❹	− OUTPUT 2
⑤	C POT	❺	+ POWER DC24V
⑥	N. C.	❻	−
		❼	N. C.
		❽	N. C.
		❾	F. G.
		⑩	N. C.

BLOCK DIAGRAM