



**Standard Specification Sheet Model: MS2937**  
**Chassis-mounting Distributor with Non-Isolated Dual-output**

MS2900

**OVERVIEW**



The MS2937 is an instrument to supply power to a 2-wire transmitter (4~20mA output) and to convert the transmitted signal into two channels of DC output signal (1~5V).

- ▽ Multi-unit-mountable chassis for ease of maintenance and high density installation.
- ▽ Fuse protection for power line.
- ▽ Cost-saving owing to elimination of isolation.

**ORDERING INFORMATION**

Ordering Code
MS2937

**SPECIFICATIONS**

**POWER SECTION**

Power Requirement	24V DC ±10%
Power Fuse	2.2Ω 1/4W Fuse resistor on power line
Power Consumption	45mA max.

**INPUT SECTION**

Input Signal	4~20mA DC from 2-wire transmitters
Input Resistance	250Ω
Transmitter Power Requirement	Output Voltage=Power Requirement - 1V Built-in overcurrent protection circuit maximum current 40mA
Transmission Load Resistance	550Ω max.

**OUTPUT SECTION**

Output Signal	1~5V DC
Output Resistance	250Ω
Allowable Load Resistance	250kΩ min.

**PERFORMANCE**

Accuracy Rating	±0.1% (Shunt resistance accuracy)
Temperature Factor	±25ppm/°C
Insulation Resistance	100MΩ min. (@500V DC)
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

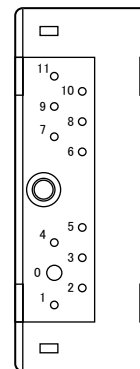
**PHYSICAL**

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	COM.
⑤	N.C.
⑥	+ OUTPUT 1
⑦	- OUTPUT 1
⑧	+ OUTPUT 2
⑨	- OUTPUT 2
⑩	+ DC24V
⑪	- POWER

**BLOCK DIAGRAM**

