



**Standard Specification Sheet Model: MS2906**  
**Chassis-mounting Pressure Transmitter with Isolated Dual-output**

MS2900

**OVERVIEW**



The MS2906 is an instrument to perform amplification of mV signals from pressure sensor like loadcells, pressure transducer, etc., and to convert them into DC output signals, while supplying excitation power to bridge-circuits in those sensors.

- ▽ Excitation power supply for sensors.
- ▽ Output monitoring terminal.
- ▽ Multi-unit-mountable chassis for ease of maintenance and high density installation.
- ▽ Perfect isolation between Input – Output – Power Supply

**ORDERING INFORMATION**

Ordering Code	
MS2906	1

**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	80mA max.

**INPUT SECTION**

Input Signal (Specify at ③ when ordering)	DC Voltage Signal from Loadcells, etc. ■ 0~10mV DC ..... V2 ■ 0~100mV DC ..... V3 ■ ±10mV DC ..... W2 ■ ±100mV DC ..... W3 ■ Other DC voltage signal over 5mV span ..... X1(□~□) Specify input signal in parentheses.
Span	5mV DC min.
Input Resistance	1MΩ min. (10kΩ without power)

Allowable Input Voltage	30V DC max. continuous
Excitation Voltage (Specify at ① when ordering)	■ 5V DC ..... E2 ■ 10V DC ..... E3 ■ Others ..... EY(□□□) Voltage Range 5~10V Specify output voltage in parentheses.
Excitation Current	Maximum current: 42mA
Bridge Resistance (Specify at ② when ordering)	Specify resistance value.

**OUTPUT SECTION**

Output Signal	Output-1	1~5V DC
	Output-2	4~20mA DC
Maximum Output Load	Voltage output: 2mA Current output: 300Ω	
Zero Adjustment	Approx. ±30% of span (Adjustable by front-accessible trimmer)	
Span Adjustment	Approx. ±30% 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 (63% 0.1sec)
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

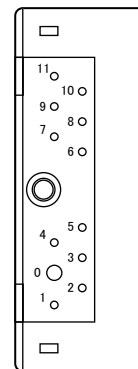
**PHYSICAL**

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	- EX
④	+ EX
⑤	N.C.
⑥	+ OUTPUT 1
⑦	- OUTPUT 1
⑧	+ OUTPUT 2
⑨	- OUTPUT 2
⑩	+ DC24V
⑪	- POWER

**BLOCK DIAGRAM**

