



Standard Specification Sheet Model: MS2908 MS2900
Chassis-mounting Frequency/Analog Converter with Isolated Dual-output

OVERVIEW



The MS2908 is an instrument to convert pulse number signal from flow meters, etc., into two channels of mutually isolated analog DC signal.

- ▽ 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
MS2908 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"> ■ Dry contact, Open collector OP (Detection power source 12V, 3.3kΩ) ■ AC voltage pulse (0.1~100Vp-p)..... AP (□□□) Specify at p-p value of input voltage at A. ■ DC voltage pulse..... DP (□~□/□)(Standard threshold voltage 2.5V) <p style="margin-left: 20px;">A B Specify input voltage range at A. For non-standard threshold voltage, specify the value at B.</p>
Measurement Frequency range (Specify at ② when ordering)	Within the range from 0~20Hz to 0~20kHz.

Input Resistance	Approx. 40kΩ (Voltage pulse input)
Input Pulse Width	20 μs min.

OUTPUT SECTION

Output Signal (Specify at ③ 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	2mA
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	Refer to the response speed table/below
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

RESPONSE SPEED TABLE

INPUT FREQUENCY	90% RESPONSE TIME
200Hz	0.4sec
2kHz	0.04sec
20kHz	0.004sec

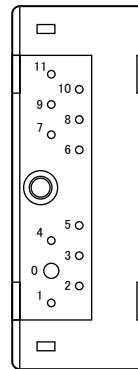
PHYSICAL

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	IN
②	COM.
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

