



**Standard Specification Sheet Model: MS3907**  
**Chassis-mounting Distributor with Isolated Dual-output**

**AREX-39**

**OVERVIEW**



This is chassis-mounting distributor with dual-output that supplies DC power to two-wire transmitter and converts its 4 to 20mA current loop 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
MS3907 8	OPEN

**SPECIFICATIONS**

**POWER SECTION**

Power Requirement	24V DC $\pm 10\%$
Power Sensitivity	$\pm 0.1\%$ of span max. @10% variance
Power Line Fuse	300mA fuse is installed, (standard)
Power Consumption	80mA max.

**INPUT SECTION**

Input Signal	4~20mA DC from 2-wire transmitter
Input Resistance	250 $\Omega$
Transmitter Power Supply	Output voltage: Approx. 25V without load down to 18V with 20.48mA input Maximum current: 25mA (TYP)
Transmitter Load Resistance	550 $\Omega$ max.

Short-Circuit Protection Limiting Current	26mA (TYP)
Short-Circuit Time Span Allowable	Infinite
Transmitter Power Switch	Power for transmitter can be turned on and off using front toggle switch. (Green LED turns on when the power is on.)

**OUTPUT SECTION**

Output Signal (Specify at ① when ordering)	OUT-1/OUT-2..... Code ■ 1~5V DC/1~5V DC ..... V1 ■ 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: 300 $\Omega$ max.
Zero Adjustment Span	Approx. $\pm 2\%$ of span (Adjustable by front-access trimmer)
Span Adjustment	Approx. $\pm 2\%$ of span (Adjustable by front-access trimmer)

**PERFORMANCE**

Accuracy Rating	$\pm 0.1\%/F.S$ (25°C $\pm 5^\circ\text{C}$ )
Temperature Effect	$\pm 0.2\%$ of span @10°C variance
Response Time	85msec 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	100M $\Omega$ 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°C Humidity: 90% max. (Non-condensation)
Storage Temperature	-10~60°C

**PHYSICAL**

Installation	Installed on mounting base (RC3900-□□AI)
External Connection	Wired to mounting base (RC3900-□□AI)
Dimension	W19.5×H53×D84mm
Weight	Approx. 80g

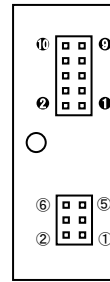
**MATERIAL**

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

**ADDITIONAL**

Other Options	Please consult our sales representatives for the availability of the following options before ordering: 〈Items〉 ..... 〈How to specify〉 Change response frequency ..... $F_c = \square\square\square\text{Hz}$ (Up to 200Hz) ■ Change response time ... $T_c = \square\square\square\text{sec}$ (Up to 2msec @90%)
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**TERMINAL ASSIGNMENT**



端子	信号	端子	信号
①	+ INPUT	⑦	+ OUTPUT 1
②	- INPUT	⑧	- OUTPUT 1
③	N. C.	⑨	+ OUTPUT 2
④	N. C.	⑩	- OUTPUT 2
⑤	COM.	⑪	+ POWER DC24V
⑥	N. C.	⑫	- POWER DC24V
		⑬	N. C.
		⑭	N. C.
		⑮	F. G.
		⑯	N. C.

**BLOCK DIAGRAM**

