



**Standard Specification Sheet Model: MS3920**  
**Chassis-mounting CT Transmitter with Isolated Dual-output**  
**(RMS Operation Model)**

**AREX-39**

**OVERVIEW**



This is chassis-mounting CT transmitter with dual-output that converts AC current signal from CT into any desired standard process signal.

- ▽ RMS operation for measuring distorted waveform.
- ▽ 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
MS3920 1 8	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 Signal (Specify at ① when ordering)	<ul style="list-style-type: none"> <li>■ 0~1A AC 50/60Hz ..... M1</li> <li>■ 0~5A AC 50/60Hz ..... M2</li> <li>■ Other AC current signal up to 5A (50/60Hz) ....MX (□~□) Specify input range in parentheses.</li> </ul>
Input Resistance	AC5A input : 5mΩ (Shunt resistor) AC1A input : 25mΩ (Shunt resistor)
Allowable Input Voltage	Continuous : 120% rated input Instantaneous : 10×rated input (3sec max.)

Crest Fact	3 max.
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**OUTPUT SECTION**

Output Signal (Specify at ② 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 ■ ±5V DC/±5V DC ..... W5 ■ ±10V DC/±10V DC ..... W6 ■ 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. ±2% of span (Adjustable by front-access trimmer)
Span Adjustment	Approx. ±2% of span (Adjustable by front-access trimmer)

**PERFORMANCE**

Accuracy Rating	±0.25%/F.S. (On condition of 10% input as minimum) (25°C ±5°C)
Temperature Effect	±0.2% of span @10°C variance
Response Time	0.4sec 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°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. 70g

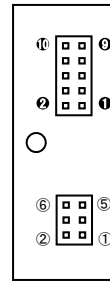
**MATERIAL**

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 time ... Tc = □□□sec (Up to 80msec @90%)
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**TERMINAL ASSIGNMENT**



端子	信号号	端子	信号号
①	N. C.	⑦	+ OUTPUT 1
②	N. C.	⑧	- OUTPUT 1
③	N. C.	⑨	+ OUTPUT 2
④	N. C.	⑩	- OUTPUT 2
⑤	N INPUT	⑥	+ POWER DC24V
⑥	L INPUT	⑦	N. C.
		⑧	N. C.
		⑨	F. G.
		⑩	N. C.

**BLOCK DIAGRAM**

