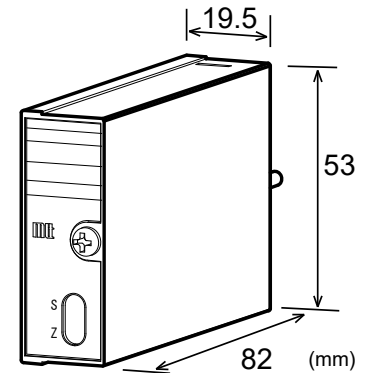




**DESCRIPTION**

The MS3920 is a chassis-mount CT transmitter that measures a load current flowing through power equipment and converts it into mutually isolated dual channel DC output signals.

- ▽ A multi-slot chassis provides ease of maintenance and high-density mounting.
- ▽ Input, output 1, output 2, and power circuits are all isolated from each other.
- ▽ Equipped with a fuse on the DC power line as standard.



**ORDERING INFORMATION**

Ordering Code
MS3920-1□□-8□□_
[1] [2] [3]

**SPECIFICATIONS**

**POWER SECTION**

Power Requirement	24V DC±10%
Power Sensitivity	Better than ±0.1% of span per 10% change in supply voltage
Power Line Fuse	300mA fuse
Current Consumption	55mA max. at 24V DC

**INPUT SECTION**

Input (Specify a code in the field [1].)	<ul style="list-style-type: none"> <li>■ 0–1A AC, 50/60Hz ..... M1</li> <li>■ 0–5A AC, 50/60Hz ..... M2</li> </ul>
Input Resistance	5A AC input: 5mΩ (shunt resistor) 1A AC input: 25mΩ (shunt resistor)
Allowable Input Current	Continuous: 120% of the rated input value Instantaneous: 10 times the rated input value (within 3 seconds)
Crest Factor	3 max.

**OUTPUT SECTION**

Output (Specify a code in the field [2].)	Output 1 / Output 2 ..... Code <ul style="list-style-type: none"> <li>■ 1–5V DC / 1–5V DC ..... V1</li> <li>■ 0–5V DC / 0–5V DC ..... V5</li> <li>■ 0–10V DC / 0–10V DC ..... V6</li> <li>■ ±5V DC / ±5V DC ..... W5</li> <li>■ ±10V DC / ±10V DC ..... W6</li> <li>■ 1–5V DC / 4–20mA DC ..... C1</li> </ul> Note: Combinations of two outputs are only available as shown above.
Allowable Output Load	Voltage output: 2mA max. Current output: 300Ω max.

Zero Adjustment	Approx. ±2% of span. (Adjustable by front-accessible trimmer)
Span Adjustment	Approx. ±2% of span. (Adjustable by front-accessible trimmer)

**ADDITIONAL**

Option [3]	■ Polyurethane conformal coating ..... /H
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**PERFORMANCE**

Accuracy Rating	Better than ±0.25% of span with at least 10% input (at 25°C±5°C).
Temperature Effect	Better than ±0.2% of span per 10°C change in ambient.
Response Time	0.4s max. (0 to 90%) with a step input at 100%
CMRR	100dB min. (500V AC, 50/60Hz)
Isolation	4-way isolation between input, output 1, output 2, and power.
Insulation Resistance	100MΩ min. (@ 500V DC) between input, output 1, output 2, and power.
Dielectric Strength	Input / [Output 1, Output 2, Power]: 1500V AC for 1 minute (Cutoff current: 0.5mA) Output 1 / Output 2 / Power: 500V AC for 1 minute (Cutoff current: 0.5mA)
Surge Withstand Capability	Tested as per ANSI/IEEE C37.90.1-1989.
Operating Environment	Ambient temperature: 0 to 55°C Humidity: 5 to 90% RH (non-condensing)
Storage Temperature	–10 to 60°C

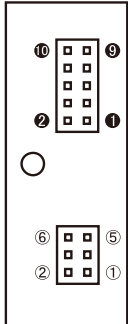
**PHYSICAL**

Installation	Mounted in an optional chassis (RC3900A-□□AI or RS3900-01TB).
Wiring	Wired to an optional chassis (RC3900A-□□AI or RS3900-01TB). The supplied shunt resistor should be connected to the terminal block. (The two brackets of the resistor should be fixed to the terminals A and B.)
External Dimensions	W19.5 × H53 × D82 mm
Weight	70g max.

**MATERIAL**

Housing	ABS resin
PC Board	Glass fabric, epoxy resin (FR-4: UL 94V-0)

**PIN ASSIGNMENTS**



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

**BLOCK DIAGRAM**

