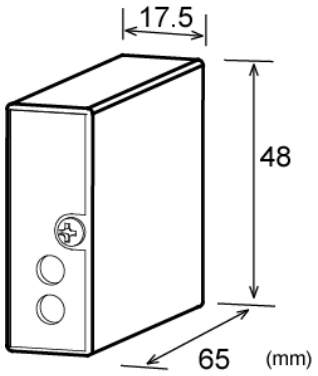
Product Specification Sheet Model: MS2920

Chassis-Mount CT Transmitter with Isolated Dual Output (RMS Calculation Type)

DESCRIPTION

The MS2920 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
MS2920-1□□-8□□ [1] [2]

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	200mA fuse
Current Consumption	50mA max.

INPUT SECTION

Input (Specify a code in the field [1].)	■ 1–5A AC, 50/60Hz ····· M1 ■ 0–5A AC, 50/60Hz ····· M2
Input Loss	0.5VA max.
Input Resistance	1A AC input: 25mΩ (shunt resistor) 5A AC input: 5mΩ (shunt resistor)
Allowable Input Current	Continuous: 120% of the rated input Instantaneous: 10 times the rated input (within 3 seconds)
Crest Factor	3 max.

OUTPUT SECTION

Output (Specify a code in the field [2].)	Output 1 / Output 2 ····· 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 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)

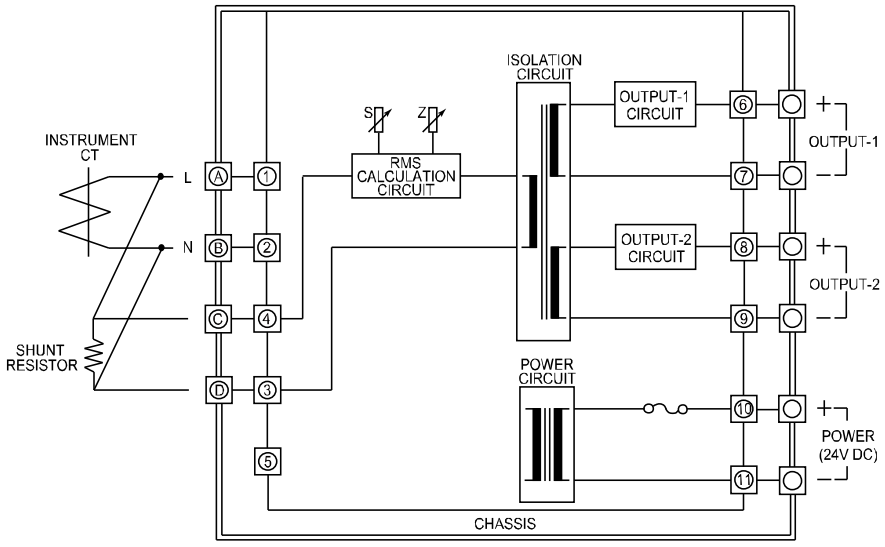
PERFORMANCE

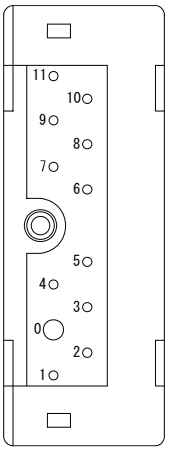
Accuracy Rating	Better than ±0.25% of span with at least 10% input (at 25°C±5°C)
Temperature Effect	Better than ±0.2% of span per 10°C change in ambient.
Response Time	Approx. 0.1s (0 to 63%)
Isolation	Isolation between input, output 1, output 2, and power.
Insulation Resistance	100MΩ min. (@ 500V DC) 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 (RC2900).
Wiring	Wired to an optional chassis (RC2900).
External Dimensions	W17.5 × H48 × D65 mm
Weight	Approx. 70g

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

BLOCK DIAGRAM AND CONNECTION DIAGRAM





I/O PIN LAYOUT