



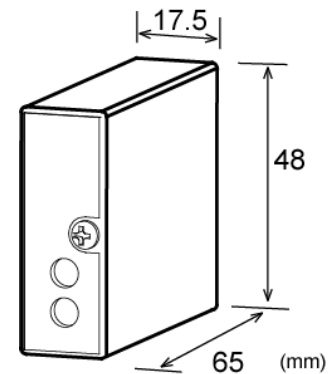
Product Specification Sheet Model: MS2921
Chassis-Mount PT Transmitter with Isolated Dual Output
(RMS Calculation Type)

MS2900

DESCRIPTION

The MS2921 is a chassis-mount PT transmitter that measures a supply voltage applied to 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
MS2921-1□□-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].)	<ul style="list-style-type: none"> ■ 0–110V AC, 50/60Hz N1 ■ 0–150V AC, 50/60Hz N2 ■ 0–250V AC, 50/60Hz N3 ■ Other AC voltages, 50/60Hz NX (□–□) <p style="margin-left: 20px;">Specify an AC voltage range in parentheses. The maximum voltage must be 300V.</p>
Input Loss	0.5VA max.
Input Resistance	1MΩ min. with or without power.
Allowable Input Current	Continuous: 120% of the rated input Instantaneous: 1.5 times the rated input (within 5 seconds)
Crest Factor	3 max.

OUTPUT SECTION

Output (Specify a code in the field [2].)	<table border="0"> <tr> <td>Output 1 / Output 2</td> <td>Code</td> </tr> <tr> <td>■ 1–5V DC / 1–5V DC</td> <td>V1</td> </tr> <tr> <td>■ 0–5V DC / 0–5V DC</td> <td>V5</td> </tr> <tr> <td>■ 0–10V DC / 0–10V DC</td> <td>V6</td> </tr> <tr> <td>■ 1–5V DC / 4–20mA DC</td> <td>C1</td> </tr> </table> <p>Note: Combinations of two outputs are only available as shown above.</p>	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
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										
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

