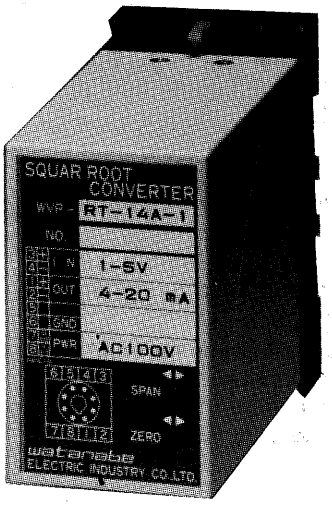
SQUARE-ROOT CONVERTER WVP- RZ



50 (W) x 96 (H) x 125.5 (D) mm Approx. 400 g

This plug-in type converter takes in a signal with square characteristics, and outputs a signal that is proportional to its square root. It is a high-performance converter that allows users to select from various types of outputs the optimum one for centralized monitoring boards, computers, data loggers and recorders. The RZ and RS models have their input and output isolated from each other using photocoupler method.

Features

- High-precision square-root output based on the latest IC calculating system.
- A wide range of I/O specifications capable of supporting diverse signal levels.
- Plug-in design to enable mounting on DIN rails or direct installation.

Model WVP-□□-□□□-□

RZ	Isolated	Response time: 200 msec/(0–90%)

	Power Supply
1	AC 100 V ± 10%, 50/60 Hz
2	AC 200 V ± 10%, 50/60 Hz
3	DC 24 V ± 10%
4	AC 100 V ± 10%, 50/60 Hz
5	AC 220 V ± 10%, 50/60 Hz

	Input Signal	
		Input Resistance
10	DC 0–10 mV	1 MΩ
11	DC 0–100 mV	1 MΩ
12	DC 0–1 V	1 MΩ
13	DC 0–5 V	1 MΩ
14	DC 1–5 V	1 MΩ
15	DC 0–10 V	1 MΩ
16	DC 0–50 mV	1 MΩ
17	DC 0–60 mV	1 KΩ
30	DC 0–10 μA	100 Ω
32	DC 0–100 μA	100 Ω
33	DC 0–10 mA	50 Ω
34	DC 0–16 mA	50 Ω
35	DC 0–20 mA	50 Ω
36	DC 4–20 V	50 Ω
99	Other than the above (Please consult with us.): Over 10 mV·fs up to 300 V·fs Over 10 μA·fs up to 20 mA·fs	

	Output Signal	
		Allowable Load Resistance
A	DC 4–20 mA	750 Ω or less
B	DC 1–5 mA	3 KΩ or less
C	DC 2–10 mA	1.5 KΩ or less
D	DC 0–1 mA	15 KΩ or less
E	DC 0–10 mA	1.5 KΩ or less
F	DC 0–16 mA	937 Ω or less
G	DC 0–20 mA	750 Ω or less
H	DC 1–5 V	2.5 KΩ or more
J	DC 0–10 mV	10 KΩ or more
K	DC 0–100 mV	100 KΩ or more
L	DC 0–1 V	500 Ω or more
N	DC 0–5 V	2.5 KΩ or more
P	DC 0–10 V	5 KΩ or more
S	Other than the above (Please consult with us.): Voltage output 10 V or less Current output 20 mA or less	

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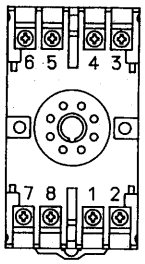
Specifications

Input signal:	DC voltage, DC current
Output signal:	DC voltage, DC current
Accuracy:	±0.1%·fs (at 23°C)
Allowable load resistance:	For voltage output, use the unit with a load current of 2 mA or less (1 μA or less for an output below 1 V·fs). For current output, use the unit with a voltage drop of 15 V or less between output terminals.
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	±0.2%·fs/10°C
Insulation resistance:	100 MΩ or more with a 500 VDC megger between the input/output terminal and power supply terminal, and between the input and output terminals (isolated type)
Dielectric strength:	2,000 VAC for 1 minute between the input and output terminals (isolated type), and between the input/output terminal and power supply terminal
Power consumption:	Approx. 4 VA (AC), approx. 120 mA (DC)
Zero & span adjustment:	±20%·fs each (multi-turn trimmer)
Output shutdown:	This function forcibly cuts off the output in cases where the output falls below 10% of the rating.

Major Applications

- Linearization of differential-flow-meter outputs and open channel flow meter outputs
- Linearization of analyzer outputs, tank levels, and weight signals
- Also, linearization and standardization of signals with square characteristics

Explanation of Terminals



No.	Symbol		Description
1	OUTPUT	+	Output signal
2		-	
3	INPUT	+	Input signal
4		-	
5			N.C.
6			N.C.
7	POWER	U (+)	Power supply
8		V (-)	