

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

This is a converter that receives a polarized analog signal, and delivers a signal that is proportional to its absolute value.

For example, if the unit is designed to work with a  $\pm 10$  V input, it will deliver the same signal, whether it receives -10 V or +10 V.

### Features

- Delivers signals with excellent linearity.
- High-speed response, with a 25 msec response time.
- The ABS model has a dielectric strength of 2,000 VAC between its input and output.
- Plug-in design facilitates system installation and maintenance.

Model WVP -  -   -

ABS Isolated Response time 25 msec (0-90%)

Power Supply	
1	AC 100 V $\pm 10\%$ , 50/60 Hz
2	AC 200 V $\pm 10\%$ , 50/60 Hz
3	DC 24 V $\pm 10\%$
4	AC 110 V $\pm 10\%$ , 50/60 Hz
5	AC 220 V $\pm 10\%$ , 50/60 Hz

Input Signal		
		Input Resistance
20	$\pm 10$ mV	1 M $\Omega$
21	$\pm 50$ mV	1 M $\Omega$
22	$\pm 100$ mV	1 M $\Omega$
23	$\pm 1$ V	1 M $\Omega$
24	$\pm 5$ V	1 M $\Omega$
25	$\pm 10$ V	1 M $\Omega$
40	$\pm 1$ mA	100 $\Omega$
41	$\pm 20$ mA	50 $\Omega$
99	Other than the above (Please consult with us.): Over 10 mV·fs up to 300 V·fs Over 10 $\mu$ A·fs up to 20 mA·fs	

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

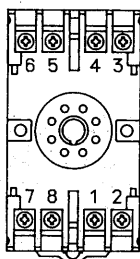
## Specification

Input signal:	DC voltage, DC current
Output signal:	DC voltage, DC current
Accuracy:	$\pm 0.1\% \cdot fs$ (at 23°C)
Allowable load resistance:	For voltage output, use the converter with a load current of 2 mA or less ( $1 \mu A$ for an output below $1 V \cdot fs$ ). For current output, use the converter 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:	$\pm 0.2\% \cdot fs/10^\circ C$
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:	$\pm 20\% \cdot fs$ each (multi-turn trimmer)

## Operation Expression

$X_0 = |X_i|$     Where  $X_0$  = Output signal  
 $X_i$  = Input signal

## Explanation of Terminals



No.	Symbol	Description
1	OUTPUT	+
2		-
3	INPUT	+
4		-
5		Empty terminal
6		Empty terminal
7	POWER	U (+)
8		V (-)