

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

This unit precisely converts the amount of rotational motion or linear movement that is taken in the form of resistance variation from a potentiometer into a current signal or voltage signal. It is a high-performance plug-in converter that allows users to choose from many outputs the optimum one for centralized monitoring equipment, computers, data loggers, and measurement control devices. The MZ and MS models have their inputs and outputs isolated by the photocoupler method.

## Features

- Arbitrary selection from a diverse input and output ranges.
- Wide adjustment ranges of Zero and Span and easy fine adjustment.
- The MZ and MS types have their input, output and power supply isolated from each other.
- Plug-in design enables mounting on DIN rails using a one-touch process.

## Model WVP - - - -

MP	Non-isolated	Response time 200 msec/(0-90%)
MZ	Isolated	Response time 200 msec/(0-90%)
MS	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		
	Rated Input	Span Adjustment Range	Zero Adjustment Range
20	0-50 $\Omega$	25-50 $\Omega$	0-25 $\Omega$
21	0-100 $\Omega$	50-100 $\Omega$	0-50 $\Omega$
22	0-200 $\Omega$	100-200 $\Omega$	0-100 $\Omega$
23	0-500 $\Omega$	250-500 $\Omega$	0-250 $\Omega$
24	0-1 K $\Omega$	0.5-1 K $\Omega$	0-500 $\Omega$
25	0-2 K $\Omega$	1-2 K $\Omega$	0-1 K $\Omega$
26	0-5 K $\Omega$	2.5-5 K $\Omega$	0-2.5 K $\Omega$
27	0-10 K $\Omega$	5-10 K $\Omega$	0-5 K $\Omega$
99	Other than the above (Please consult with us.)		

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 mV	10 K $\Omega$ or more
K	DC 0-100 mV	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
R	DC $\pm$ 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	

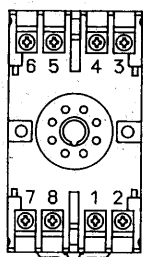
## Specification

Input signal:	Resistance value of 3-wire type potentiometer
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 or less 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.
Span adjustment range:	50–100% of the rated input, using a multi-turn trimmer
Zero adjustment range:	0–50% of the rated input, using a multi-turn trimmer
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 M $\Omega$ 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 input and output terminals (isolated type), and between input/output terminal and power supply terminal
Power consumption:	Approx. 4 VA (AC), Approx. 120 mA (DC)
Option:	Burnout circuit (full upward deflection)

## Major Applications

- Transmission of measurement signals from a float-type level gauge to a remote location.
- Measurement of aperture of electromagnetic valves, gates, dampers, etc.
- Stroke measurement of plungers, jacks and cylinders.

## Explanation of Terminals



No.	Symbol	Description
1	OUTPUT	+
2		-
3	INPUT	HIGH
4		SLIDE
5		LOW
6		N.C.
7	POWER	U (+)
8		V (-)