

This plug-in signal converter converts the amount of rotation movement or linear travel distance extracted as a change in the potentiometer's resistance value to the selected DC voltage or current output. Model MZ and MS type is isolated between input and output by photocoupler.

### Features

- ★ Wide Zero & span adjustment range and easy to adjust.
- ★ Isolated between input and output by photocoupler (MZ, MS).
- ★ Both AC and DC power supply are available.
- ★ Easy to maintain by plug-in structure.

### Ordering code

WAP- **M** - - - -

Code	Description
MP	Potentiometer Converter (non-isolated) Response time 200ms (0 to 90%)
MZ	Potentiometer Converter (isolated) Response time 200ms (0 to 90%)
MS	Potentiometer Converter (isolated) Response time 25ms (0 to 90%)

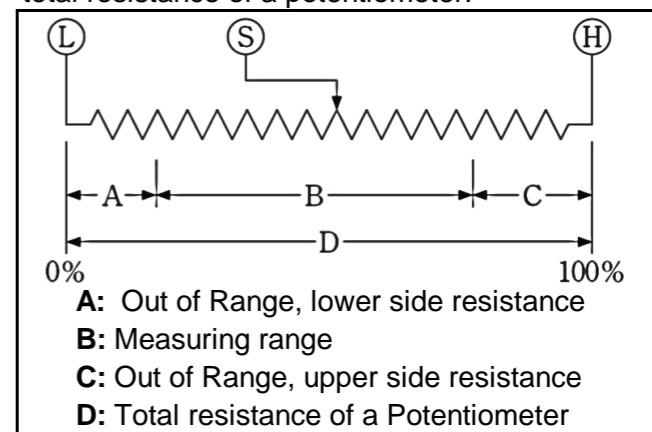
Code	Output	Allowable Load
A	4 to 20mA <sub>dc</sub>	750Ω or less
B	1 to 5mA <sub>dc</sub>	3kΩ or less
C	2 to 10mA <sub>dc</sub>	1.5kΩ or less
D	0 to 1mA <sub>dc</sub>	15kΩ or less
E	0 to 10mA <sub>dc</sub>	1.5kΩ or less
F	0 to 16mA <sub>dc</sub>	937Ω or less
G	0 to 20mA <sub>dc</sub>	750Ω or less
H	1 to 5V <sub>dc</sub>	2.5kΩ or more
J	0 to 10mV <sub>dc</sub>	10kΩ or more
K	0 to 100mV <sub>dc</sub>	100kΩ or more
L	0 to 1V <sub>dc</sub>	500Ω or more
N	0 to 5V <sub>dc</sub>	2.5kΩ or more
P	0 to 10V <sub>dc</sub>	5kΩ or more
R	±10V <sub>dc</sub>	5kΩ or more
S	Contact us for other than the above Current output 20mA or less Voltage output 10V or less	

Code	Power Supply
1	100Vac ±10% 50/60Hz
2	200Vac ±10% 50/60Hz
3	24V <sub>dc</sub> ±10%
4	110Vac ±10% 50/60Hz
5	220V <sub>dc</sub> ±10% 50/60Hz

Code	Input (Total Resistance)	Span Ad. Range	Zero Ad. Range
20	0 to 50Ω	25 to 50Ω	0 to 25Ω
21	0 to 100Ω	50 to 100Ω	0 to 50Ω
22	0 to 200Ω	100 to 200Ω	0 to 100Ω
23	0 to 500Ω	250 to 500Ω	0 to 250Ω
24	0 to 1kΩ	0.5 to 1kΩ	0 to 500Ω
25	0 to 2kΩ	1 to 2kΩ	0 to 1kΩ
26	0 to 5kΩ	2.5 to 5kΩ	0 to 2.5kΩ
27	0 to 10kΩ	5 to 10kΩ	0 to 5kΩ
99	Contact us for other than the above		

### ★ Note: Zero & Span Adjustment

The measuring range must be 50% of total resistance of a potentiometer.

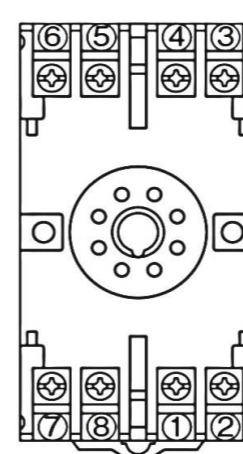


A procedure for adjustment, adjust Zero first, and then adjust the Span.

### Specifications

<b>Accuracy</b>	±0.1% FS (at 23°C)
<b>Allowable load resistance</b>	Current output 15V or less of voltage drop between output Voltage output Load current 2mA or less For 1V FS or less of output the current is 1μA or less
<b>Span adjustment</b>	50 to 100% of rated input (multi-turn trimmer)
<b>Zero adjustment</b>	0 to 50% of span (multi-turn trimmer) Minimum span is 50% or more of the rated input signal.
<b>Operating temperature</b>	-5 to +60°C
<b>Operating relative humidity</b>	90% or less (non-condensing)
<b>Temperature coefficient</b>	±0.015% FS of span per °C
<b>Insulation resistance</b>	100MΩ or more with a 500V <sub>dc</sub> megger Between input, output, and power supply terminal
<b>Dielectric strength</b>	2000Vac for 1 minute
<b>Power consumption</b>	Approx. 4VA (AC), Approx. 120mA (DC)
<b>Dimensions</b>	97(H) X 51(W) X 126(D)mm
<b>Weight</b>	Approx. 400g
<b>Structure</b>	Plug-in
<b>Connection</b>	M3.5 SEMS screw part of the base socket
<b>Material of terminal screw</b>	Chromated iron
<b>Case color and material</b>	Ivory, heat-resistant ABS resin(94V-0)
<b>Mounting</b>	DIN rail or wall surface

### Terminal connections



No	Signal	Description
1	No.1 OUTPUT(+)	No.1 Output
2	No.1 OUTPUT(-)	
3	INPUT(HIGH)	Input
4	INPUT(SLIDE)	
5	INPUT(LOW)	
6	NC	No connection
7	POWER U(+)	Power Supply
8	POWER V(-)	

\* Specification is subject to change without notice