

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%)

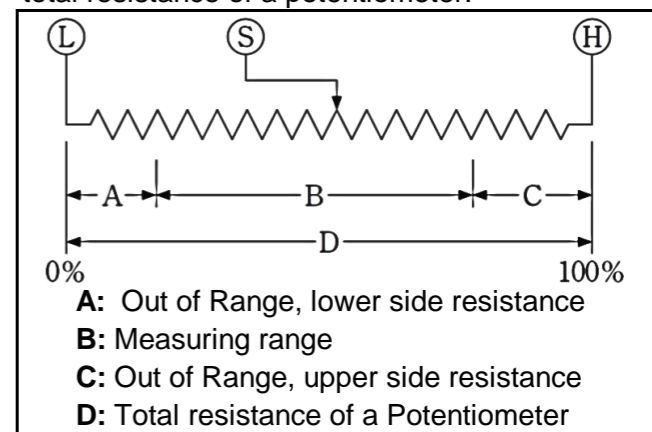
Code	Output	Allowable Load
A	4 to 20mA _{dc}	750Ω or less
B	1 to 5mA _{dc}	3kΩ or less
C	2 to 10mA _{dc}	1.5kΩ or less
D	0 to 1mA _{dc}	15kΩ or less
E	0 to 10mA _{dc}	1.5kΩ or less
F	0 to 16mA _{dc}	937Ω or less
G	0 to 20mA _{dc}	750Ω or less
H	1 to 5V _{dc}	2.5kΩ or more
J	0 to 10mV _{dc}	10kΩ or more
K	0 to 100mV _{dc}	100kΩ or more
L	0 to 1V _{dc}	500Ω or more
N	0 to 5V _{dc}	2.5kΩ or more
P	0 to 10V _{dc}	5kΩ or more
R	±10V _{dc}	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 _{dc} ±10%
4	110Vac ±10% 50/60Hz
5	220V _{dc} ±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.

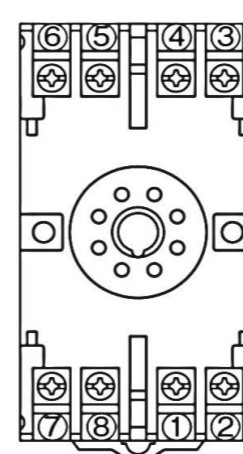


A procedure for adjustment, adjust Zero first, and then adjust the Span.

Specifications

Accuracy	±0.1% FS (at 23°C)
Allowable load resistance	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
Span adjustment	50 to 100% of rated input (multi-turn trimmer)
Zero adjustment	0 to 50% of span (multi-turn trimmer) Minimum span is 50% or more of the rated input signal.
Operating temperature	-5 to +60°C
Operating relative humidity	90% or less (non-condensing)
Temperature coefficient	±0.015% FS of span per °C
Insulation resistance	100MΩ or more with a 500V _{dc} megger Between input, output, and power supply terminal
Dielectric strength	2000Vac for 1 minute
Power consumption	Approx. 4VA (AC), Approx. 120mA (DC)
Dimensions	97(H) X 51(W) X 126(D)mm
Weight	Approx. 400g
Structure	Plug-in
Connection	M3.5 SEMS screw part of the base socket
Material of terminal screw	Chromated iron
Case color and material	Ivory, heat-resistant ABS resin(94V-0)
Mounting	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)	No connection
6	NC	
7	POWER U(+)	Power Supply
8	POWER V(-)	

* Specification is subject to change without notice