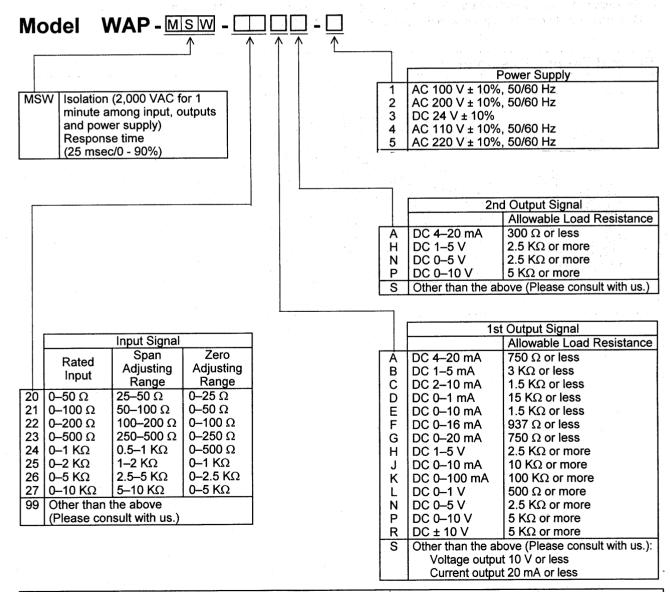


This plug-in type signal converter with 2 isolated outputs converts the amount of rotational motion or linear movement that is taken out in the form of a resistance variation from a potentiometer into a current signal or voltage signal. Since you can choose an optimum output from this converter, which has its input, output and power supply isolated from one another, for feeding it to a measurement control device, the unit can be employed in a wide variety of applications.

## **Features**

- Offers wide adjusting ranges of Zero and Span, and causes almost no interference.
- A high accuracy of ±0.1% fs and a fast response of 25 msec have been achieved.
- Capable of delivering signals both to the loop installed for it and to a computer simultaneously.
- The four ports of input, 1st output, 2nd output, and power supply are isolated from one another with a dielectric strength of 2 kVAC.
- Small-sized plug-in type that can be mounted on DIN rails by a one-touch action.



## **Specifications**

Input signal:

Potentiometer or slide rheostat (3-wire system)

**Output signal:** 

DC current or DC voltage, respectively, for the 1st and the 2nd output

Allowable load resistance:

Within the range specified in the part of Model, respectively, for the 1st and the

2nd output

Accuracy:

±0.1% · fs (at 23°C)

Response time:

25 msec (time to reach 90% of the final value)

Isolation:

Among input, 1st output, 2nd output, and power supply, from one another

Dielectric strength:

2,000 VAC for 1 minute among input, 1st output, 2nd output, and power supply

Insulation resistance:

100 M $\Omega$  or more among input, 1st output, 2nd output, and power supply

Zero adjusting range:

0% to 50% of rated input (multi-turn trimmer) 50% to 100% of rated input (multi-turn trimmer)

Span adjusting range: Effective measuring range:

The range used for measurement after zero and span adjustments is more than

50% of the rated input

**Output limitation:** 

Approx. 120% · fs (fixed)

Influence of ambient temperature:

Influence on accuracy: ±0.015 % · fs/°C

Influence of supply voltage:

Influence on accuracy: ±0.1% fs/rated voltage ±10%

Power supply:

100 V, 110 V, 200 V, or 220 VAC ±10% each, 50/60 Hz, 24 VDC ±10%

Power consumption:

Approx. 5 VA (AC)

Material of case:

Operating ambient temperature and humidity:-5 to +60°C, 90% RH or less (without condensation or icing) ABS resin (outer covering), Noryl resin (base socket) 50 wide x 84 high x 135.5 deep (mm), approx. 400 g

Dimensions and weight: Construction and mounting:

Plug-in type. Directly installed or mounted on DIN rails

Connection method:

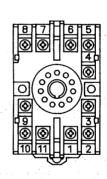
Coupled to M3.5 x 7 SEMS screws of base socket

## **Major Applications**

Transmission of measurement signals from a float type level gauges to a remote location.

Measurement of aperture of gates and dampers, and cylinder stroke.

## **Pin and Terminal Assignment**



No.	Symbol		Description
1	OUT	+	Output signal
2	No. 1	-	Output signal
3			N.C.
4	INPUT	High	Input signal
5		Slide	
6		Low	
7	POWER	ح	Power supply
8		<b>&gt;</b>	
9		3 H	N.C.
10	OUT	+	Output signal
11	No. 2	<u>-</u>	