

This compact plug-in signal converter (distributor) with two outputs supplies 24Vdc to the 2-wire transmitter through signal lines and converts the signals (4 to 20 mA<sub>dc</sub>) to the DC voltage or current output. And also provides isolation of up to 2000V between the signal input, outputs, and power supply.

## Features

- ★ Isolated two signal outputs are available.
- ★ Dielectric strength of 2000Vac between input, outputs and power supply.
- ★ Both AC and DC power supply are available.
- ★ Accuracy at 0.1% FS, Response time 25ms.
- ★ Easy maintain at plug-in structure.
- ★ CE marking, RoHS conform.

## Ordering code

WSP- **DBZW** - **□□□□**

Code	Transmitter Power
A	24Vdc ±1V max. 25mA

Code	Test Report
X	None
T	with Test report

Code	First Output Signal	Allowable Load
A	4 to 20mA <sub>dc</sub>	less than 500Ω
H	1 to 5Vdc	more than 1kΩ

Code	Second Output Signal	Allowable Load
A	4 to 20mA <sub>dc</sub>	less than 250Ω
H	1 to 5Vdc	more than 1kΩ

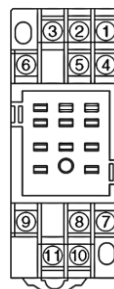
Code	Power Supply
A	100 to 240Vac ±10% 50/60Hz
D	24Vdc ±10%
8	100 to 120Vdc ±10%

Applicable Directive (89/336/EEC)  
 EMI EN61000-6-4  
 EMS EN61000-6-2  
 Low voltage directive (73/23/EEC)  
 EN61010-1

## Specifications

Accuracy	±0.1% FS (at 23°C)
Response time	Approx. 25ms (0 to 90%)
Allowable load resistance	Current output First output : 10V or less of voltage drop between output Second output : 5V or less of voltage drop between output Voltage output Load current 5mA or less For less than 1V FS of output the current is 1μA or less
Zero & span adjustment	±5% FS (1 turn trimmer)
Output ripple	0.25% (p-p) fs or less
Transmitter power supply	24Vdc ±1V, max about 25mA
Operating temperature	-5 to +55°C
Operating relative humidity	90% or less (non-condensing)
Temperature coefficient	±0.015% FS of span per °C
Isolation	Between input, output, and power supply
Insulation resistance	100MΩ or more with a 500Vdc megger Between input, output, and power supply terminal
Dielectric strength	2000Vac for 1 minute
Power consumption	Approx. 8.5VA (AC), Approx. 150mA (24Vdc)
Power supply variation	±0.1% FS (within the range of rated voltage)
Dimension	84(H) X 29.5(W) X 106.5(D)mm
Weight	Approx. 150g
Structure	Plug-in
Connection	M3 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	TRANSMITTER(+)	Transmitter
2	No.2 OUTPUT(+)	No.2 Output
3	TRANSMITTER(-)	Transmitter
4	COM(-)	(Adjusting terminal) *
5	No.2 OUTPUT(-)	No.2 Output
6	NC	No connection
7	No.1 OUTPUT(+)	No.1 Output
8	NC	No connection
9	No.1 OUTPUT(-)	No.1 Output
10	POWER U(+)	Power Supply
11	POWER V(-)	

\* When transmitter supplies power from other ones, the 4th terminal can be used to supply the signal input (4 to 20mA<sub>dc</sub>) to this converter.