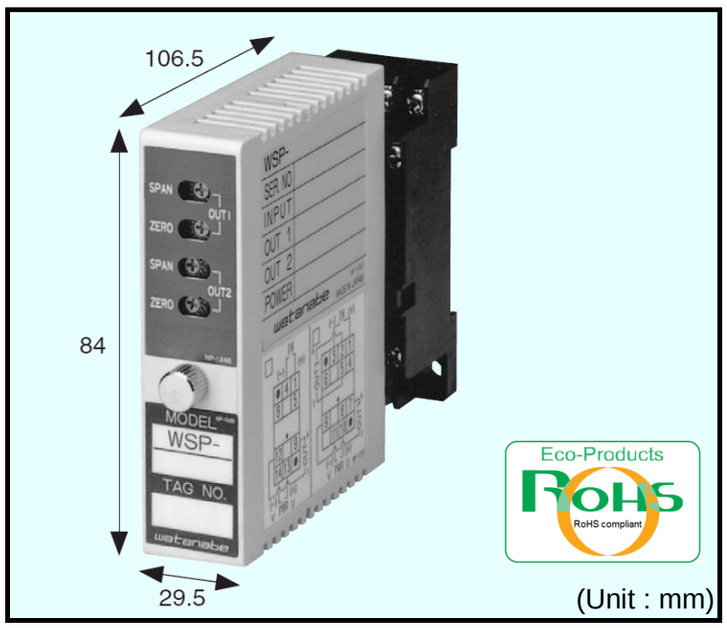
Dual-Output AC Signal Converter / Dual-Output RMS Converter

WSP-ACW / EFW



This compact plug-in converter accepts AC voltage or current input
and provides optically isolated two DC voltage or current outputs.
Since WSP-EFW type adopts the true root-mean-square value operation system,
it ensures particularly high reliability against distorted waves.

Features

★ Dielectric strength of 2000Vac between input, output and power supply
★ Allows the user to downsize the system by compact size and side by side installation
★ Both AC and DC power supply are available
★ Accuracy at 0.2% FS, Response time 500ms
★ Easy to maintain by plug-in structure
★ RoHS compliant

Ordering code

WSP- □□W - □□ □ □ - □□

Code	Signal type
ACW	Dual output AC Signal converter, Rectifier type
EFW	Dual output RMS Converter, True-RMS type

Code	Input	Input Resistance
13	0 to 1Vac	1MΩ
14	0 to 10Vac	1MΩ
15	0 to 100Vac	1MΩ
16	0 to 110Vac	1MΩ
18	0 to 200Vac	1MΩ
19	0 to 250Vac	1MΩ
20	0 to 1mAac	100Ω
21	0 to 10mAac	50Ω
22	0 to 20mAac	50Ω
23	0 to 100mAac	10Ω
99	Contact us for other than the above Full Scale Range: AC 50mV to 300V, AC 1mA to 100mA	

Code	Output 1	Allowable Load
A	4 to 20mAdc	750Ω or less
D	0 to 1mAdc	15kΩ or less
E	0 to 10mAdc	1.5kΩ or less
G	0 to 20mAdc	750Ω or less
H	1 to 5Vdc	1kΩ or more
J	0 to 10mVdc	10kΩ or more
K	0 to 100mVdc	100kΩ or more
L	0 to 1Vdc	200Ω or more
N	0 to 5Vdc	1kΩ or more
P	0 to 10Vdc	2kΩ or more
S	Contact us for other than the above Current output 20mA or less Voltage output 10V or less	

Code	Output 2	Allowable Load
A	4 to 20mAdc	750Ω or less
D	0 to 1mAdc	15kΩ or less
G	0 to 20mAdc	750Ω or less
H	1 to 5Vdc	1kΩ or more
N	0 to 5Vdc	1kΩ or more
P	0 to 10Vdc	2kΩ or more

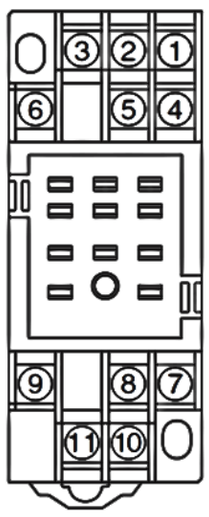
Code	Power Supply
A	90 to 264Vac 50/60Hz
D	10.8 to 26.4Vdc
8	90 to 121Vdc

Code	Test Report
X	None
T	With Test report

Specifications

Accuracy	±0.2% FS (at 23°C)
Response time	Approx. 500ms (0 to 90%)
Allowable load resistance	Current output 15V or less of voltage drop between output terminal Voltage output Load current 5mA or less For 1V FS or less of output the current is 1μA or less
Zero & span adjustment	±5% FS (1 turn trimmer)
Output ripple	±0.25% (p-p) FS
Input condition	Rated frequency 20 to 500Hz Waveform and frequency components : ACW type : Sine wave EFW type : Sine wave and distorted wave
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. 4.5VA (AC), Approx. 100mA (24Vdc)
Power supply variation	±0.1% FS (within the range of rated voltage)
Dimensions	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	INPUT(~)	Input
2	No.2 OUTPUT(+)	No.2 Output
3	INPUT(~)	Input
4	NC	No connection
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(-)	

∗ **Specification is subject to change without notice**