

# Dual Output PT Converter

**WSP-PTAW/PTEW**



This compact plug-in signal converter with two insulated outputs converts the secondary outputs of PTs (VTs) in power substations, motor circuits, etc. into instrumentation signals. Since Type PTEW adopts the true root-mean-square value operation system, it ensures particularly high reliability against distorted waves.

## Features

- Dielectric strength of 2000 V AC between input, output, and power source
- This compact and tightly mountable isolator allows the user to downsize the system.
- Both AC flexible power supply and DC power supply are available.
- Accuracy:  $\pm 0.2\%$ , Response time: 500 ms
- Shortened time of completion and high serviceability thanks to plug-in design

## Model name

WSP — P T W — [ ] [ ] [ ] [ ] [ ] [ ]

<b>PTAW</b>	Dual Output PT Converter, Rectifying type
<b>PTEW</b>	Dual Output PT Converter, True RMS Value type

<b>Test Report</b>	
X	No
T	Yes

Input Signal	Input Resistance	
55	0-100 V AC	1M $\Omega$
56	0-150 V AC	1M $\Omega$
57	0-200 V AC	1M $\Omega$
58	0-350 V AC	1M $\Omega$

Primary Output Signal	Allowable Load	
A	4-20 mA DC	750 $\Omega$ or less
D	0-1 mA DC	15k $\Omega$ or less
E	0-10 mA DC	1.5k $\Omega$ or less
G	0-20 mA DC	750 $\Omega$ or less
H	1-5 V DC	1k $\Omega$ or more
J	0-10 mV DC	10k $\Omega$ or more
K	0-100 mV DC	100k $\Omega$ or more
L	0-1 V DC	200 $\Omega$ or more
N	0-5 V DC	1k $\Omega$ or more
P	0-10 V DC	2k $\Omega$ or more
S	Please contact us for other than those above. Voltage input: 10 V or less Current input: 20 mA or less	

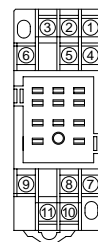
Supply Voltage	
A	90-264 V AC 50/60Hz
D	10.8-26.4 V DC
8	90-121 V DC

Secondary Output Signal	Allowable Load	
A	4-20 mA DC	350 $\Omega$ or less
D	0-1 mA DC	7k $\Omega$ or less
G	0-20 mA DC	350 $\Omega$ or less
H	1-5 V DC	1k $\Omega$ or more
N	0-5 V DC	1k $\Omega$ or more
P	0-10 V DC	2k $\Omega$ or more

## Specifications

Accuracy:	$\pm 0.2\%$ fs (at 23°C)
Response time:	500 ms (time required to reach 90% of final value)
Allowable load:	Voltage output: load current 5 mA or less For less than 1 Vfs of output, the current is 1 $\mu$ A or less. Current output: 15 V or less of voltage drop between primary output terminals 7 V or less of voltage drop between secondary output terminals
Zero & span adjustment:	$\pm 5\%$ fs (1-turn trimmer)
Output ripple:	0.25% (p-p) fs or less
Input condition:	Rated frequency 20-500 Hz
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	$\pm 0.15\%$ fs/10°C
Isolation:	Between input, primary output, secondary output, and power source
Insulation resistance:	100 M $\Omega$ or more with a 500 V DC megger Between input, primary output, secondary output, and power source
Dielectric strength:	2000 V AC for 1 minute Between input, primary output, secondary output, and power source
Power consumption:	Approx. 4.5 VA (AC), approx. 100 mA (24 V DC)
Influence of source voltage:	$\pm 0.1\%$ fs in the range of rated voltage

Dimensions:	84(H)x29.5(W)x106.5(D)mm
Weight:	Approx. 150g
Structure:	Plug-in (consisting of main unit and socket part)
Connection part:	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
Dimensions:	Refer to Dimensional Drawing II
Terminal arrangement:	



No.	Symbol	Description
1	INPUT	~ Input Signal
2	No.2 OUTPUT	+ Secondary Output Signal
3	INPUT	~ Input Signal
4	NC	No Connection
5	No.2 OUTPUT	- Secondary Output Signal
6	NC	No Connection
7	No.1 OUTPUT	+ Primary Output Signal
8	NC	No Connection
9	No.1 OUTPUT	- Primary Output Signal
10	POWER	U(+)
11	POWER	V(-)