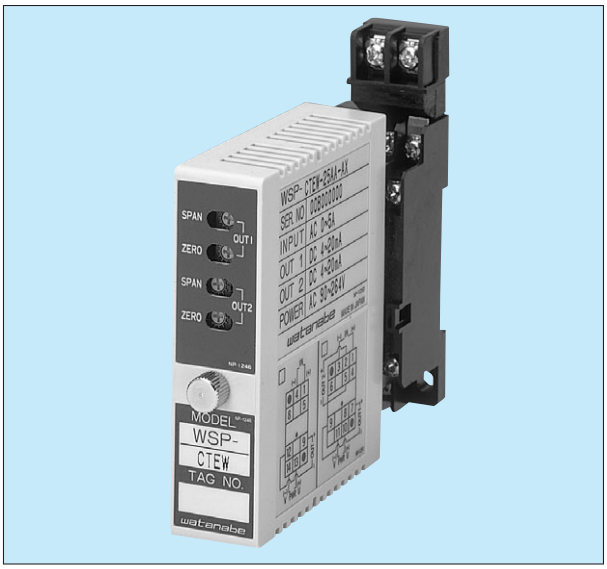
Dual Output CT Converter

WSP-CTAW/CTEW



This compact plug-in signal converter with two insulated outputs converts the secondary outputs of CTs in power substations, motor circuits, etc. into DC signals. Since Type CTEW 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: ±0.2%, Response time: 500 ms
- Shortened time of completion and high serviceability thanks to plug-in design

Model name

WSP — C T W — ☐☐ ☐ ☐ — ☐ ☐

CTAW	Dual Output CT Converter, Rectifying type
CTEW	Dual Output CT Converter, True RMS Value type

	Input Signal	Input Resistance
24	0-1 A AC	0.033Ω
25	0-5 A AC	0.0068Ω

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

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

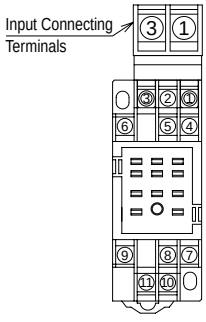
	Supply Voltage
A	90-264 V AC 50/60Hz
D	10.8-26.4 V DC
8	90-121 V DC

	Test Report
X	No
T	Yes

Specifications

Accuracy:	±0.2%fs (at 23˚C)
Response time:	500 ms (time required to reach 90% of final value)
Excessive Input:	120% consecutive, 200% for 10 seconds, 1000% for 3 seconds
Allowable load:	Voltage output: load current 5 mA or less For less than 1 Vfs of output, the current is 1μA 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:	±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 +55C, 90% RH or less (without condensation)
Influence of ambient temperature:	±0.15%fs/10˚C
Isolation:	Between input, primary output, secondary output, and power source
Insulation resistance:	100 MΩ 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:	±0.1%fs in the range of rated voltage

Dimensions:	100(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 V
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(+)	Power Supply
11	POWER	V(–)	