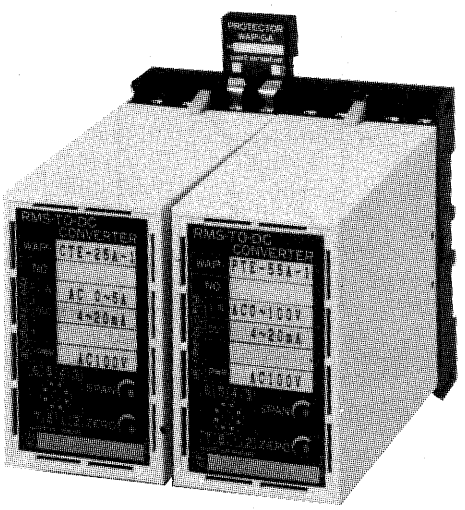
CT CONVERTER AND PT CONVERTER (AC SIGNAL AND RMS-TO-DC CONVERTER) WVP-CTA/CTE/PTA/PTE



50 (W) x 96 or 116 (H) x 125.5 (D) mm Approx. 400 g

These plug-in signal converters convert the secondary outputs of CTs or PTs in power-receiving facilities, etc., into instrumentation signals that are convenient for transmissions. The types CTE and PTE provide particularly high reliability against distorted waves, since they adopt a true r.m.s. value measurement method.

Features

- Input, output and power supply terminals are isolated from each other, with a dielectric strength of 2,000 VAC
- Deliver signals with low ripple and excellent linearity.
- Constant-voltage or constant current output, with no need to specify a load resistance
- Suitable for monitoring power or lighting circuits (Types CTE and PTE)
- Plug-in design reduces system installation and maintenance time

Major Applications

- Output of CT and PT signals to computers
- Monitoring of induction motor and pump operations
- Current or voltage measurement on circuits using thyristors and inverters

Model WVP-□□□-□□ □ - □

CTA	CT converter (isolated)	Rectifying type (mean value)
CTE		True r.m.s. value type
PTA	PT converter (isolated)	Rectifying type (mean value)
PTE		True r.m.s. value type

	Power Supply
1	AC 100 V ± 10%, 50•60Hz
2	AC 200 V ± 10%, 50•60Hz
3	DC 24 V ± 10%
4	AC 110 V ± 10%, 50•60Hz
5	AC 220 V ± 10%, 50•60Hz

	Input Signal	
24	AC 0–1 A	Ranges for CT converter
25	AC 0–5 A	
55	AC 0–100 V	Ranges for PT converter
56	AC 0–110 V	
57	AC 0–150 V	
58	AC 0–200 V	
59	AC 0–250 V	
99	Other than the above (Please consult with us.)	

	Output Signal	
		Allowable Load Resistance
A	DC 4–20 mA	less than 750 Ω
B	DC 1–5 mA	less than 3 KΩ
C	DC 2–10 mA	less than 1.5 KΩ
D	DC 0–1 mA	less than 15 KΩ
E	DC 0–10 mA	less than 1.5 KΩ
F	DC 0–16 mA	less than 937 Ω
G	DC 0–20 mA	less than 750 Ω
H	DC 1–5 V	more than 2.5 KΩ
J	DC 0–10 mV	more than 10 KΩ
K	DC 0–100 mV	more than 100 KΩ
L	DC 0–1 V	more than 500 Ω
N	DC 0–5 V	more than 2.5 KΩ
P	DC 0–10 V	more than 5 KΩ
R	DC ± 10 V	more than 5 KΩ
S	Other than the above (Please consult with us.): Voltage output 10 V or less Current output 20 mA or less	

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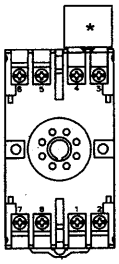
Specification

Input signal:	AC current (CT), AC voltage (PT)
Output signal:	DC voltage, DC current
Accuracy:	±0.2%·fs (at 23°C, with sine square)
Allowable excessive input:	1,000% of rated input for 5 seconds (CT) 200% of rated input for 5 seconds (PT)
Allowable load resistance:	For voltage output, use the converter with a load current of 2 mA or less (1 μA or less for an output below 1 V·fs). For current output, use the converter with a voltage drop of 15 V or less between output terminals.
Response time:	0.5 sec (time to reach 90% of the final value)
Output ripple:	0.25%(p-p)·fs or less
Rated frequency:	45 to 65 Hz
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	±0.2%·fs/10°C
Insulation resistance:	100 MΩ or more with a 500 VDC megger between the input/output terminal and power supply terminal, and between the input and output terminals
Dielectric strength:	2,000 VAC for 1 minute between the input and output terminals, and between the input/output terminal and power supply terminal
Power consumption:	Approx. 4 VA (AC), Approx. 120 mA (DC)
Input loss:	Voltage: Approx. 1 mA or less Current: Approx. 0.45 VA or less
Zero & span adjustment:	±20%·fs each (multi-turn trimmer)

Explanation of Terminals

Protector



(* Standard accessory to CT Converter)

No.	Symbol		Description
1	OUTPUT	+	Output signal
2		-	
3	INPUT		Input signal
4			
5			N.C.
6			N.C.
7	POWER	U (+)	Power supply
8		V (-)	