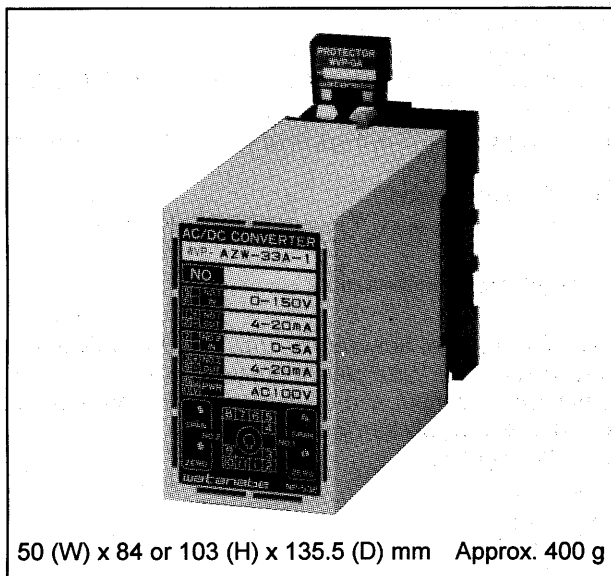


AC 2-ELEMENT CONVERTER AND RMS-VALUE 2-ELEMENT CONVERTER (AC/DC CONVERTER) WVP-AZW/EZW



50 (W) x 84 or 103 (H) x 135.5 (D) mm Approx. 400 g

A single unit of these compact plug-in converters is capable of converting 2-element AC current or voltage into independent instrumentation signals. They convert secondary signals of a CT (current transformer) or PT (power transformer) into signals that are convenient for transmission, and significantly reduce the required installation space. Their output signals are optimum for computers, since they are low in ripple, have excellent linearity, and are hardly affected by load resistance. The EZW model adopts a true r.m.s. value measurement method.

Features

- A single unit can handle two elements, contributing to a significant reduction in the required installation space.
- These converters isolate the two elements, as well as their input, output and power supply, from each other, with a dielectric strength of 2,000 VAC.
- Constant-voltage or constant-current output, without a need to specify a load resistance
- Plug-in design to enable mounting on DIN rails or direct installation

Model WVP - [] - [] - [] - []

| | | |
|-----|-----------------------|----------------------|
| AZW | Average rectification | Insulated |
| EZW | True r.m.s. value | (transformer method) |

| Power Supply | |
|--------------|-----------------------------|
| 1 | AC 100 V \pm 10%, 50-60Hz |
| 2 | AC 200 V \pm 10%, 50-60Hz |
| 4 | AC 110 V \pm 10%, 50-60Hz |
| 5 | AC 220 V \pm 10%, 50-60Hz |

| No. 1 Input / No. 2 Input | |
|---------------------------|---|
| 12 | AC 0-150 V / AC 0-150 V |
| 13 | AC 0-300 V / AC 0-300 V |
| 24 | AC 0-1 A / AC 0-1 A |
| 25 | AC 0-5 A / AC 0-5 A |
| 32 | AC 0-150 V / AC 0-1 A |
| 33 | AC 0-150 V / AC 0-5 A |
| 36 | AC 0-300 V / AC 0-1 A |
| 37 | AC 0-300 V / AC 0-5 A |
| 99 | Other than the above (Please consult with us.) |

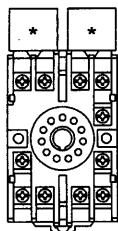
| Output Signal | | |
|---------------|--|---------------------------|
| | | Allowable Load Resistance |
| A | DC 4-20 mA | less than 500 Ω |
| B | DC 1-5 mA | less than 2 K Ω |
| C | DC 2-10 mA | less than 1 K Ω |
| D | DC 0-1 mA | less than 10 K Ω |
| E | DC 0-10 mA | less than 1 K Ω |
| F | DC 0-16 mA | less than 625 Ω |
| G | DC 0-20 mA | less than 500 Ω |
| H | DC 1-5 V | more than 2.5 K Ω |
| J | DC 0-10 mV | more than 10 K Ω |
| K | DC 0-100 mV | more than 100 K Ω |
| L | DC 0-1 V | more than 500 Ω |
| N | DC 0-5 V | more than 2.5 K Ω |
| P | DC 0-10 V | more than 5 K Ω |
| S | Other than the above (Please consult with us.): Voltage output 10V or less Current output 20 mA or less | |

Specification

| | |
|---------------------------------------|--|
| Input signal: | AC voltage, AC current |
| Output signal: | DC voltage, DC current |
| Number of input signals: | 2 |
| Number of output signals: | 2 |
| Accuracy (at 23°C, with sine square): | ±0.2%·fs (AZW model) ±0.2%·fs (EZW model) |
| Allowable excessive input: | Voltage: 200% for 5 seconds Current: 1,000% for 5 seconds |
| Allowable load resistance: | For voltage output, use the converter with a load current of 2 mA or less (1 μ A or less for an output below 1 V·fs). For current output, use the converter with a voltage drop of 10 V or less between output terminals. |
| Response time: | 0.5 sec (0–90%) |
| 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 M Ω 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. 3.5 VA (AC) |
| Input loss: | Voltage: Approx. 1 mA x 2 or less Current: Approx. 0.45 VA x 2 or less |
| Zero & span adjustment: | ±10%·fs each (three-turn trimmer) |

Explanation of Terminals

Protector



(* Standard accessory for current input)

| No. | Symbol | Description |
|-----|--------|---------------|
| 1 | + | Output signal |
| 2 | - | Output signal |
| 3 | + | Output signal |
| 4 | | N.C. |
| 5 | | Input signal |
| 6 | | Input signal |
| 7 | | Input signal |
| 8 | | Input signal |
| 9 | - | Output signal |
| 10 | U | Power supply |
| 11 | V | Power supply |