AC VOLTAGE TRANSDUCER

WVETP2 – □□□□

CONSTANT VOLTAGE/CURRENT OUTPUT RMS VALUE TYPE

WVETP2-3H51

(80×50×133mm/500g)

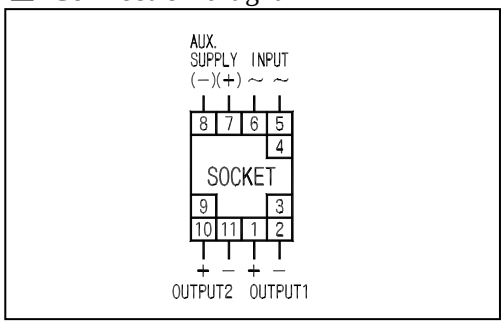
■ Use

This device converts an AC current in an electric power system into a DC signal in proportion to input.

■ Features

1. Constant voltage/current output.
2. Being a RMS type by adopting a hybrid IC, the device can be used for a distortion or a SCR waveform input.
3. Withstand voltage between input, output, auxiliary supply and outer case is AC2, 000V (50/60Hz), complete insulation for 1 min..
4. Withstand voltage between 1st output and 2nd output is AC1, 000V.
5. Impulse withstands voltage 5kV, 1.2/50μs (between electric circuit and outer case) positive/ negative polarity 3 times each is guaranteed.

■ Connection diagram

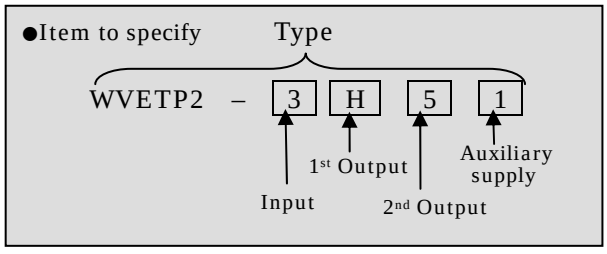


■ Specification

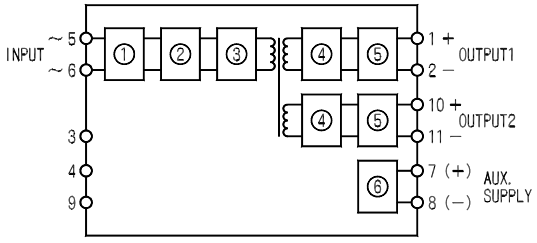
Input	1st Output (load resistance)	2nd Output (load resistance)	Auxiliary supply	Common specification
1: AC0-63.5V 2: AC0-86.6V 3: AC0-110V 4: AC0-127V 5: AC0-150V 6: AC0-173.2V 7: AC0-220V 8: AC0-300V 0: other than those above UD-3 is equipped as a standard for input 1A and 5A. MAX 300V	1: DC0-100mV(≧200Ω) 2: DC0-1V (≧200Ω) 3: DC0-5V (≧1kΩ) 4: DC 0-10V (≧2kΩ) 5: DC1-5V (≧1kΩ) A: DC0-1mA (≦12kΩ) B: DC0-5mA (≦2.4kΩ) C: DC0-10mA(≦1.2kΩ) D: DC0-16mA (≦750Ω) E: DC1-5mA (≦2.4kΩ) F: DC4-20mA(≦600Ω) 0: other than those above	1: DC0-100mV (≧200Ω) 2: DC0-1V (≧200Ω) 3: DC0-5V (≧1kΩ) 4: DC 0-10V (≧2kΩ) 5: DC1-5V (≧1kΩ) A: DC0-1mA (≦7kΩ) B: DC0-5mA (≦1.4kΩ) C: DC0-10mA (≦700Ω) D: DC0-16mA (≦430Ω) E: DC1-5mA (≦1.4kΩ) F: DC4-20mA (≦350Ω) 0: other than those above	1: AC100V±10%, 50/60Hz 2: AC110V±10%, 50/60Hz 3: AC200V±10%, 50/60Hz 4: AC220V±10%, 50/60Hz 5: DC24V±10% 0: other than those above	Tolerance: ±0.5% Response time: ≦0.25sec./90% Consumption VA: Input: 0.5VA AC power source:3VA DC power source:3.5W Weight: AC power source:500g DC power source:400g
	H: DC4-20mA(≦800Ω) DC1-5V(≧250kΩ) With output switching function	5: DC1-5V (≧1kΩ)	1: AC100V+10%, -15%, 50/60Hz 2: AC110V+10%, -15%, 50/60Hz 3: AC200V+10%, -15%, 50/60Hz 4: AC220V+10%, -15%, 50/60Hz 5: DC24V+10%, -15%	

● Open of current output: even if the current output terminal is used in a state of regular open, there is no problem. Also, a voltage of approx. 25V occurs on the output terminal.

■ Purchase specifications



■ Block diagram



①Insulated current transformer
②RMS converter circuit
③Pulse width modulation circuit
④Pulse width demodulation circuit
⑤Output circuit
⑥Insulated power source circuit