

§Small-sized plug-in transducers§

2-outputs type

AC Voltage Transducer

FWVT

Application

Converts AC current in an electric power system into a DC signal in proportion to input. With input and output insulated, the product offers full advantages in transmitting insulated signals between measuring systems, cutoff of noise, protecting a control circuit from a sneak current, and transmitting an output signal directly to a distant place. Because this transducer can extract two insulated outputs, a single unit can do control and monitor. Up to 16 units can be housed in an installation base.



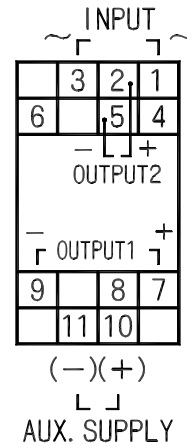
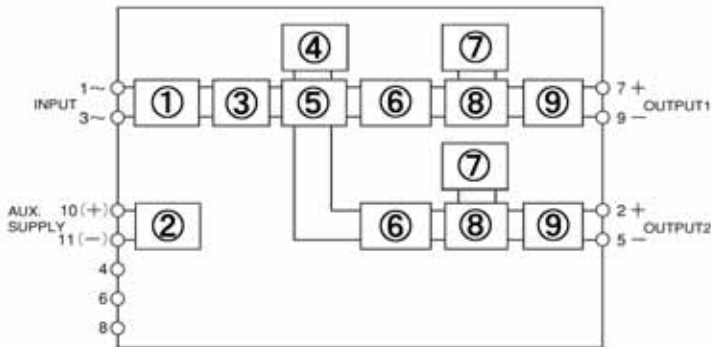
Feature

29.5 × 76 × 125mm/180g

1. Compact and high withstand voltage.
2. Withstand voltage between input/output/auxiliary supply/outer case is AC2, 000V (50/60Hz) for 1 min..
3. Withstand voltage between outputs is AC500V (50/60Hz) for 1 min..
4. Constant voltage/current output type. No need to adjust the product if it operates within load resistance range.
5. A LED can confirm status of electric power applied.
6. Zero/span of 1st and 2nd output can be adjusted individually. (±2% adjustable)
7. Because the device is RMS value operation type, it can also be used with a distorted waveform or a SCR waveform.

Block Diagram

Connection diagram (socket)



- RMS value converter circuit
- Insulated power source circuit
- Smoothing circuit
- Oscillating circuit
- Pulse width modulation circuit
- Photo coupler insulation
- Reference voltage
- Pulse width demodulation circuit
- Output circuit

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Specification

How to specify

Type name Specification code
FWVT - X X 0

Input	1 st output (load resistant)	2 nd output (load resistant)	Auxiliary supply	Power fuse	Common specification
1: AC0-100V	1: DC0-100mV (200)	1: DC0-100mV(200)	F: AC/DC80-264V	1: without fuse	Conversion accuracy: ± 0.5% Temperature characteristics: 0.25%/10 Response time: 0.25s/90% Consumption VA Input: 0.1VA At AC110V: 4.5VA At AC220V: 5.5VA At DC110V: 2.5W At DC24V: 2.5W Weight: Without socket: approx.130g With socket: approx.180g
2: AC0-110V	2: DC0-1V (200)	2: DC0-1V(200)	Rated Voltage	2: with fuse	
3: AC0-150V	3: DC0-5V(600)	3: DC0-5V(1k)	AC100/110V		
4: AC0-200V	4: DC0-10V (2k)		AC200/220V		
5: AC0-259V	5: DC1-5V (600)	5: DC1-5V (1k)	50/60Hz		
6: AC0-300V			AC200/220V		
	A: DC0-1mA (10k)	A: DC0-1mA (7k)	50/60Hz		
	B: DC0-5mA(2k)	B: DC0-5mA (1.4k)	DC100/110V		
	C: DC0-10mA (1k)	C: DC0-10mA (700)			
	D: DC0-16mA(600)	D: DC0-16mA (430)	5: DC24V		
	E: DC1-5mA(3k)	E: DC1-5mA (1.4k)	(DC19-30V)		
	F: DC4-20mA (750)	F: DC4-20mA (350)			
Z: other than those above *1 (See product range)	Z: other than those above *1 (See product range)	Z: other than those above *1 (See product range)			

*1 Consult with us for specification other than those indicated in the table above.

Product Range (including special handling)

Input	1 st output	2 nd output
Input current AC0 - (10V-300V)	Current output: 0- (1mA-20mA) Voltage output: 0- (10mV-10V)	Current output: 0- (1mA-20mA) Voltage output: 0- (10mV-10V)

When Input voltage is 50V or less, it is subject to special handling.

2nd output: output more than 5.1V but less than 10V is subject to special handling. (Load current 2mA)