





ISOLATOR

WTP2 -    

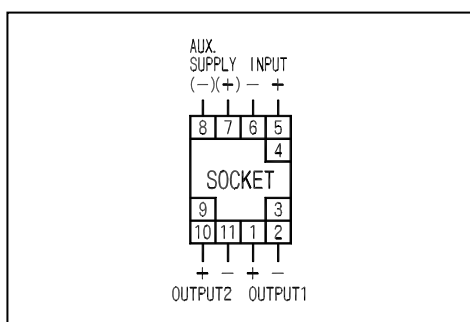
Use

Amplifies various kinds of DC signals and converts them into a unified intersystem signal. 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 directly to a distant place.

Features

1. Constant voltage/current output
2. Withstand voltage between input, output, auxiliary supply and outer case (earth) is AC2, 000V (50/60Hz), complete insulation for 1 minute.
3. Withstand voltage between 1st and 2nd output is AC1, 000V.
4. Impulse withstands voltage 5kV, 1.2/50 μ s (between electric circuit and outer case), and positive/negative polarity 3 times each is guaranteed.

Connection diagram



WTP2-C7H51

(80 × 50 × 133mm/500g)

Specification

Input (input resistance or voltage drop)		1 st Output (load resistance)	2 nd Output (load resistance)	Auxiliary supply	Common specification
A1 : DC0-10mV (approx.1M Ω)	C1 : DC0-10 μ A (100mV) *1	1 : DC0-100mV (200 Ω)	1 : DC0-100mV (200 Ω)	1 : AC100V \pm 10%, 50/60Hz	Tolerance: \pm 0.25% *2 Response time: 0.25sec./90% Consumption VA: AC power source:3VA DC power source:3.5W Weight: AC power source:500g DC power source:400g
A2 : DC0-50mV (approx.1M Ω)	C2 : DC0-100 μ A (100mV)	2 : DC0-1V (200 Ω)	2 : DC0-1V (200 Ω)	2 : AC110V \pm 10%, 50/60Hz	
A3 : DC0-60mV (approx.1M Ω)	C3 : DC0-1mA (approx.100 Ω)	3 : DC0-5V (1k Ω)	3 : DC0-5V (1k Ω)	3 : AC200V \pm 10%, 50/60Hz	
A4 : DC0-100mV (approx.1M Ω)	C4 : DC0-5mA (approx.100 Ω)	4 : DC 0-10V (2k Ω)	4 : DC 0-10V (2k Ω)	4 : AC220V \pm 10%, 50/60Hz	
A5 : DC0-1V (approx.1M Ω)	C5 : DC0-10mA (approx.100 Ω)	5 : DC1-5V (1k Ω)	5 : DC1-5V (1k Ω)	5 : DC24V \pm 10%, 50/60Hz	
A6 : DC0-5V (approx.1M Ω)	C6 : DC0-16mA (approx.100 Ω)	6 : DC0-1mA (12k Ω)	6 : DC0-1mA (7k Ω)	6 : other than those above	
A7 : DC0-10V (approx.1M Ω)	C7 : DC4-20mA (approx.100 Ω)	7 : DC0-5mA (2.4k Ω)	7 : DC0-5mA (1.4k Ω)		
A8 : DC1-5V (approx.1M Ω)	C8 : DC \pm 10 μ A (\pm 100mV)*1	8 : DC0-10mA (1.2k Ω)	8 : DC0-10mA (700 Ω)		
B1 : DC \pm 10mV (approx.1M Ω)	D1 : DC \pm 10 μ A (\pm 100mV)	9 : DC0-16mA (750 Ω)	9 : DC0-16mA (430 Ω)		
B2 : DC \pm 50mV (approx.1M Ω)	D2 : DC \pm 100 μ A (\pm 100mV)	10 : DC1-5mA (2.4k Ω)	10 : DC1-5mA (1.4k Ω)		
B3 : DC \pm 60mV (approx.1M Ω)	D3 : DC \pm 500 μ A (\pm 100mV)	11 : DC4-20mA (600 Ω)	11 : DC4-20mA (350 Ω)		
B4 : DC \pm 100mV (approx.1M Ω)	D4 : DC \pm 1mA (approx.100 Ω)	12 : other than those above	12 : other than those above		
B5 : DC \pm 1V (approx.1M Ω)	D5 : DC \pm 5mA (approx.100 Ω)				
B6 : DC \pm 5V (approx.1M Ω)	D6 : DC \pm 10mA (approx.100 Ω)				
B7 : DC \pm 10V (approx.1M Ω)	D7 : other than those above MAX 300V, 100mA				
		H : DC4-20mA (800 Ω) DC1-5V (250k Ω) With output switching function	S : DC1-5V (1k Ω)	1 : AC100V \pm 10%, -15%, 50/60Hz 2 : AC110V \pm 10%, -15%, 50/60Hz 3 : AC200V \pm 10%, -15%, 50/60Hz 4 : AC220V \pm 10%, -15%, 50/60Hz 5 : DC24V \pm 10%, -15%,	

*1. Circuit voltage 15V for an input of 10 μ A. *2. Tolerance becomes \pm 0.5% when input voltage is less than 50mV; input current is less than 100 μ A.

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.

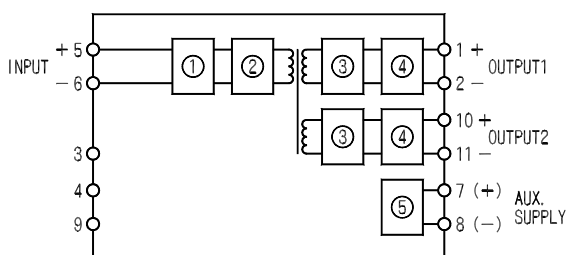
Built-in ripple filter

Even if a ripple of single-phase AC full rectification wave (50/60Hz) degree is included in input wave, it still converts the wave into a smoothed DC signal. Please consult with us for special wave patterns such as an inverter.

UR-1 precise resistance unit (selling separately)

Please use a UR-1 combined with an isolator of voltage input. When changing the isolator in a hot line state at the time of current input, if measures against open are necessary, connect UR-1 to socket and convert it into a voltage signal before using it. (UR-1, the resistance specified)

Block diagram



Low-drift amplifying circuit
Pulse width modulation circuit
Pulse width demodulation circuit
Output circuit
Insulated power source circuit

Purchase specifications

