

PLUG-IN 2-OUTPUT TYPE Signal/Sensor/AC transducer

Product	Type code	Outlines	Withstand voltage
Isolator	WTP2 - □□	Converts a DC input signal into a unified signal which was isolated.	AC2000V
Distributor	WDTP2 -C7	Supplies electric power to a 2-wire transmitter and converts signal from the transmitter into a proportional DC signal.	AC2000V
Distributor with square root extraction	WSRDTP2-C7	Supplies electric power to a 2-wire transmitter and converts signal from the transmitter into a DC signal which was proportional to the square root of the signal.	AC2000V
Thermoelectric temperature transducer	WHTP2 -	Converts thermal electromotive force of a thermocouple into a DC signal which was proportional to temperature.	AC2000V
Resistance temperature transducer	WRHTP2-	Converts resistance of a 3-wire thermal resistance into a DC signal which was proportional to temperature.	AC2000V
Potentiometer transducer	WRTP2 -Z	Outputs a DC signal which was proportional to resistance of a potentiometer.	AC2000V
AC current transducer	WAETP2 -	Outputs a DC signal which was proportional to RMS value of an AC current input.	AC2000V
AC voltage transducer	WVETP2 -	Outputs a DC signal which was proportional to RMS value of an AC voltage input.	AC2000V
Frequency transducer	WFTP2 -	Outputs a DC signal which was proportional to frequency.	AC2000V

Soft spec type

Product	Type code	Outlines	Withstand voltage
Adding/subtracting transducer	CADTP1 - □□	Does adding and subtracting of three inputs, and then outputs a DC signal equivalent to the value. Parameters can be changed by CCM-1.	AC1500V
Multiplying/dividing transducer	CMLTP1 - □□	Does multiplication and division of three inputs, and then outputs a DC signal equivalent to the value. Parameters can be changed by CCM-1.	AC1500V
Temperature/pressure correcting transducer	CLTP1 - □□	Processes temperature/pressure condition and converts it into a DC signal which was proportional to flow rate. Parameters can be changed by CCM-1.	AC1500V
Function generating transducer	CFGTP1 - □□	Does broken line operation of a DC input 15 polygonal lines maximum. Parameters can be changed by CCM-1	AC1500V
Analog backup transducer	CAMTP1 - □□	Provides output with a backup when a computer or a PID controller was down. Follow-up movement and output backup are settable by CCM-1.	AC1500V
Voltage pulse transducer	CVFTP1 - □□	Outputs a pulse of frequency which was proportional to a DC input. Pulse frequency, pulse width and output cut against a low input are settable by CCM-1.	AC1500V

Alarm setter

Product	Type code	Outlines	Withstand voltage
Alarm setter (digital % scale)	SDD- -105 - □□	Compares a preset value of digital % scale with a direct input signal, and outputs a contact signal.	AC1500V
Alarm setter (actual scale)	SD- -105 - □□	Compares value of an actual scale setter with a direct input signal, and outputs a contact signal.	AC1500V
Alarm setter (LCD)	SDL-105- □□	Compares a preset value with a direct input signal, and then outputs a contact signal. 4 digit LCD indication. Actual scale indication is settable.	AC2000V
Deviation alarm setter (LCD)	SDDV-105- □□	Compares deviation between two DC signal inputs and deviation of each input with a preset value, and then outputs a contact signal.	AC2000V
AC voltage alarm setter	SVD- -105 -	Inputs AC voltage and outputs a contact signal	AC2000V

§ PLUG-IN TRANSDUCER §

COMMON STANDARD SPECIFICATION/TYPE CODE DESIGNATION



Common standard specifications

High quality/high reliability

Highly reliable electronic parts are adopted.

Aging tests of each part as well as burn-in aging test of the product under a high temperature are implemented.

PCB treatment

In order to reinforce insulation resistance stability of PCB surfaces and prevent the surfaces from insulation deterioration, B side of the PCB was cleaned and coated with high humidity resistant varnish after parts installation.

Output limiter circuit

Even if an excessive input is applied, the product confines the output to about 1.5 times of rating and protects the output side equipments.

Item	Specification	
Tolerance	% against output span	
Influence of temperature	23 ± 10 tolerance %	
Influence of frequency	45-65Hz tolerance % (Reference) IEC, rated Hz±10% tolerance %	
Characteristics	In conformity with JIS C 1111-1989 in tolerance	
Response time	Time it takes to fall within ±1% of the final steady-state when applied a stepped input. Standard : 1.0. sec. (Insulation transducer only: 0.5 sec.)	
Output ripple	1%p-p against output span	
External adjustment of output	± 5% adjustable	
Auxiliary supply	AC100V or AC200V ±10% (50, 60Hz) (DC100/110V is manufacturable only for TP2)	
Overvoltage	Input	2 times (10 sec.), 1.2 times (continuity) of rated voltage
	Aux.supply	1.5 times (10 sec.), 1.1 times (continuity) of rated voltage
Over current	AC transducer	40 times (1 sec.), 20 times (4 sec.) 10 times (16 sec.), 1, 2 times (continuity) of rated current
	Signal transducer	10 times (5 sec.)
Insulation resistance	Between input terminal, output terminal, (auxiliary supply terminal) and outer case (earth) 50M at DC500V. Non-insulation type: input terminal and output terminal conducted.	
Material of outer case	Fire-retardant ABS resin	
Appearance color	Outer case	Black (N 1.5)
	Rating plate	Dark blue (5PB 2/6)
Operating temperature/ humidity range	-10- + 55 , 30-85%RH	
Storage temperature range	-40- + 70	

Type code designation

1 output type

Signal transducer

(1) P (2) - (3) (4) (5)

§ PLUG-IN TRANSDUCER §

COMMON STANDARD SPECIFICATION/TYPE CODE DESIGNATION

(1) Product (kind of conversion)

Mark	Product (kind of conversion)	Mark	Product (kind of conversion)
T	Isolator	CRT	Constant response (constant speed response)
HST	Ultrahigh speed isolator	AMT	Analog memory
DT	Distributor	T***L	Isolator with lower limiter
LT	Linearizer	RVT	Reverse isolator
SQT	Square	VFT	Analog pulse
SRT	Square root extraction	R	Signal switch
MT	Multiplying	UGT	Ultraslow pulse
DIT	Dividing	PRT	Pulse rate
ALT	Analog limiter	PPT	Pulse isolator (2-output)
ADT	Adding		

(2) Dielectric strength voltage

Mark	Dielectric strength voltage (50/60Hz)
None	Non-insulation
1	AC1,500V between input/output, for 1 min.
2	AC2,000V between input/output, for 1 min.

(3) / (4) / (5) Specification code

Input/output/auxiliary supply

Sensor transducer

(1) TP (2) - (3) (4) (5)

(1) Product (kind of input)

Mark	Product (kind of input)
H	Thermoelectric temperature
RH	Resistance temperature
R	Potentiometer
G	Revolution-speed (Frequency proportion)
GV	Revolution-speed (Voltage proportion)
S	Selsyn
SH	Thermoelectric alarm
SRH	Platinum alarm

(2) Dielectric strength voltage

Mark	Dielectric strength voltage (50/60Hz)
1	AC1,500V between input/output, for 1 min.
2	AC2,000V between input/output, for 1 min.

(3) / (4) / (5) Specification code

Kind of thermocouple, input, output, power source
Kind of thermal resistance, input, output, power source
Input, output, power
Input, normal operating voltage, output, power source

AC transducer

(1) P2 - (2) (3) (4)

(1) Product (kind of input)

Mark	Product (kind of input)
V	AC voltage (with waveform compensation, load fixation, need no power source)
VT	AC voltage (with waveform compensation, need no power source)
VET	AC voltage (RMS value)
A	AC current (with waveform compensation, load fixation, need no power source)
AT	AC current (with waveform compensation, need no power source)
AET	AC current (RMS value)
FT	Frequency

Dielectric strength voltage

AC2,000V(50/60Hz) between input/output, for 1 min.
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(2) / (3) / (4) Specification code

Input, output, power

DC power transducer

DWP1 - (1) (2) (3) (4) (5)

Dielectric strength voltage

AC1,500V(50/60Hz) between input/output, for 1 min.
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(1) / (2) / (3) / (4) / (5) Specification code

Electric power, input 1, input 2, output, power source
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2-output type

Signal transducer

W (1) P (2) - (3) (4) (5) (6)

(1)Product (kind of conversion)

Mark	Product (kind of conversion)
T	Isolator
DT	Distributor
SRDT	Square root extraction distributor

(2) Dielectric strength voltage

Mark	Dielectric strength voltage (50/60Hz)
2	AC2,000V between input/output, for 1 min.

(3) / (4) / (5) / (6) Specification code

Input, output, power source

Sensor transducer

W (1) P (2) - (3) (4) (5) (6) (7)

(1)Product (kind of input)

Mark	Product (kind of input)
HT	Thermoelectric temperature
RHT	Resistance temperature
RT	Potentiometer

(3) / (4) / (5) / (6) / (7) Specification code

Kind of thermocouple, input, output, power source
Kind of thermal resistance, input, output, power source
Input, output, power
Input, normal operating voltage, output, power source

(2)Dielectric strength voltage

Mark	Dielectric strength voltage (50/60Hz)
2	AC2,000V between input/output, for 1 min.

AC transducer

W (1) P (2) - (3) (4) (5) (6) (7)

(1)Product (kind of input)

Mark	Product (kind of conversion)
VET	AC voltage (RMS value)
AET	AC current (RMS value)
FT	Frequency

(2) Dielectric strength voltage

Mark	Dielectric strength voltage (50/60Hz)
2	AC2,000V between input/output, for 1 min.

(3) / (4) / (5) / (6) / (7) Specification code

Input, rated voltage (current), output, power source
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Soft spec. type

Signal transducer

C (1) P (2) - (3) (4) (5)

(1)Product (kind of conversion)

Mark	Product (kind of conversion)
ADT	Adding/subtracting
MLT	Multiplying/dividing
LT	Temperature/pressure correction
FGT	Function generating
AMT	Analog backup
VFT	Voltage pulse

(2) Dielectric strength voltage

Mark	Dielectric strength voltage (50/60Hz)
1	AC1,500V between input/output, for 1 min.

(3) / (4) / (5) Specification code

Input, output, power source

Programming unit

CCM-1



Common standard specifications

High quality/high reliability

Highly reliable electronic parts are adopted.

Aging tests of each part as well as burn-in aging test of the product under a high temperature are implemented.

PCB treatment

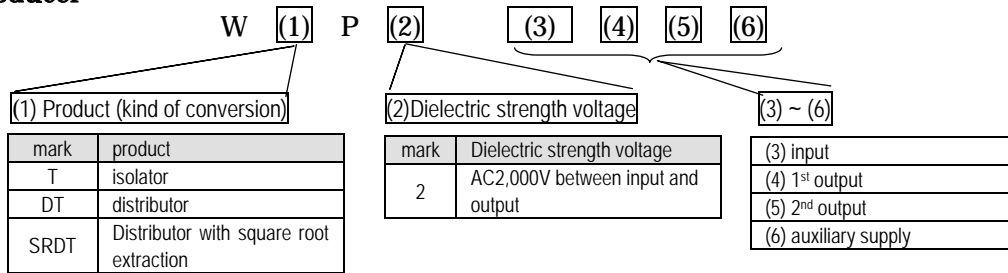
In order to reinforce insulation resistance stability of PCB surfaces and prevent the surfaces from insulation deterioration, B side of the PCB was cleaned and coated with high humidity resistant varnish after parts installation.

Output limiter circuit

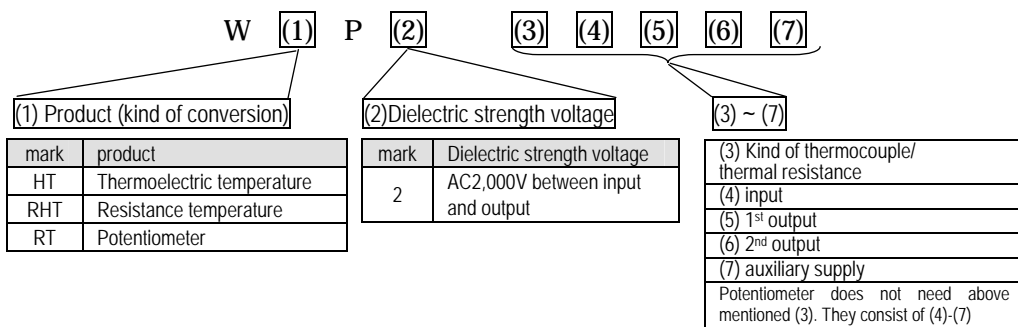
Even if an excessive input is applied, the product confines the output to about 1.5 times of rating and protects the output side equipments.

Type code designation

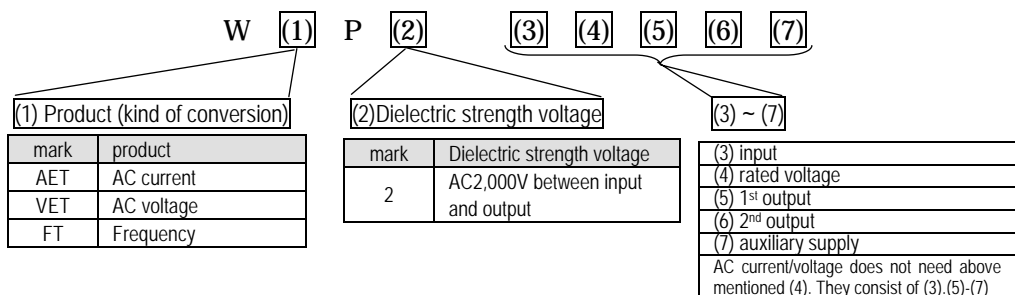
Signal transducer



Sensor transducer







AC transducer



Standard specifications

Item	Specification	
Tolerance	% against output span	
Influence of temperature	23 ± 10 tolerance %	
Influence of frequency	45-65Hz tolerance % (Reference) IEC, rated Hz±10% tolerance %	
Characteristics	In conformity with JIS C 1111-1989 in tolerance	
Response time	Standard 1 sec. (Signal transducer and AC transducer 0.5 sec.) Time it takes to fall within ±1% of the final steady-state when applied a stepped input.	
Output ripple	1%p-p against output span	
External adjustment of output	± 5% adjustable	
Auxiliary supply	Depends on individual specifications.	
Overvoltage	input	2 times (10 sec.), 1.2 times (continuity) of rated voltage
	Aux.supply	1.5 times (10 sec.), 1.2 times (continuity) of rated voltage
Over current	AC transducer	20 times (1 sec.), 1, 2 times (continuity) of rated current
	Signal transducer	10 times (5 sec.), 1, 2 times (continuity)
Insulation resistance	Between input terminal, output terminal, auxiliary supply terminal and outer case (earth) 50M at DC500V	
Material of outer case	Fire-retardant ABS resin	
Appearance color	Outer case	Black (N 1.5)
	Rating plate	Dark blue (5PB 2/6)
Operating temperature/ humidity rang	-10- + 55 , 5-90%RH (no condensation)	
Storage temperature range	-40- + 70	

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.



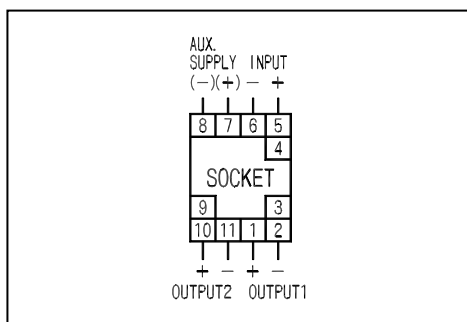
Features

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, 1.2/50µs (between electric circuit and outer case), and positive/negative polarity 3 times each is guaranteed.

WTP2-C7H51

(80 × 50 × 133mm/500g)

Connection diagram



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.1MΩ)	C1 : DC0-10µA (100mV) *1	H1 : DC0-100mV(200Ω)	I1 : DC0-100mV(200Ω)	1 : AC100V±10%, 50/60Hz	Tolerance: ±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.1MΩ)	C2 : DC0-100µA (100mV)	H2 : DC0-1V (200Ω)	I2 : DC0-1V (200Ω)	2 : AC110V±10%, 50/60Hz	
A3 : DC0-60mV (approx.1MΩ)	C3 : DC0-1mA (approx.100Ω)	H3 : DC0-5V (1kΩ)	I3 : DC0-5V (1kΩ)	3 : AC200V±10%, 50/60Hz	
A4 : DC0-100mV (approx.1MΩ)	C4 : DC0-5mA (approx.100Ω)	H4 : DC 0-10V (2kΩ)	I4 : DC 0-10V (2kΩ)	4 : AC220V±10%, 50/60Hz	
A5 : DC0-1V (approx.1MΩ)	C5 : DC0-10mA (approx.100Ω)	H5 : DC1-5V (1kΩ)	I5 : DC1-5V (1kΩ)	5 : DC24V±10%	
A6 : DC0-5V (approx.1MΩ)	C6 : DC0-16mA (approx.100Ω)	H6 : DC0-1mA (12kΩ)	I6 : DC0-1mA (7kΩ)	0 : other than those above	
A7 : DC0-10V (approx.1MΩ)	C7 : DC4-20mA (approx.100Ω)	H7 : DC0-5mA (2.4kΩ)	I7 : DC0-5mA (1.4kΩ)		
A8 : DC1-5V (approx.1MΩ)	D1 : DC±10µA (±100mV)*1	H8 : DC0-10mA (1.2kΩ)	I8 : DC0-10mA (700Ω)		
B1 : DC±10mV (approx.1MΩ)	D2 : DC±100µA (±100mV)	H9 : DC0-16mA (750Ω)	I9 : DC0-16mA (430Ω)		
B2 : DC±50mV (approx.1MΩ)	D3 : DC±500µA (±100mV)	H0 : DC1-5mA (2.4kΩ)	I0 : DC1-5mA (1.4kΩ)		
B3 : DC±60mV (approx.1MΩ)	D4 : DC±1mA (approx.100Ω)	H1 : DC4-20mA (600Ω)	F : DC4-20mA (350Ω)		
B4 : DC±100mV (approx.1MΩ)	D5 : DC±5mA (approx.100Ω)	0 : other than those above	0 : other than those above		
B5 : DC±1V (approx.1MΩ)	D6 : DC±10mA (approx.100Ω)	H2 : DC4-20mA(800Ω)	G : DC1-5V (1kΩ)	1 : AC100V+10%, -15%, 50/60Hz	
B6 : DC±5V (approx.1MΩ)	00 : other than those above	H3 : DC1-5V(250kΩ)		2 : AC110V+10%, -15%, 50/60Hz	
B7 : DC±10V (approx.1MΩ)	MAX 300V, 100mA	With output switching function		3 : AC200V+10%, -15%, 50/60Hz	
				4 : AC220V+10%, -15%, 50/60Hz	
				5 : DC24V+10%, -15%	

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

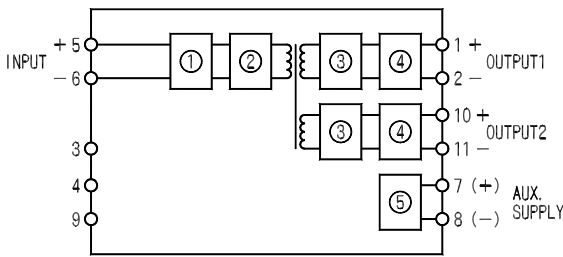
Built-in ripple filter

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)

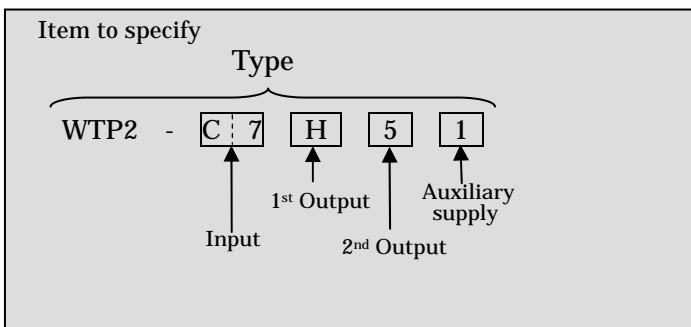
Please use a UR-1 combined with an isolator of voltage input. When changing the isolator in a hot line state at the time of current input, if measures against open are necessary, connect UR-1 to socket and convert it into a voltage signal before using it. (UR-1, the resistance specified)

Block diagram



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

Purchase specifications



DISTRIBUTOR

WDTP2 - C 7

Use

Supplies electrical power to a 2-wire transmitter receives a DC4-20mA signal from the transmitter and outputs a proportional DC signal.

Features

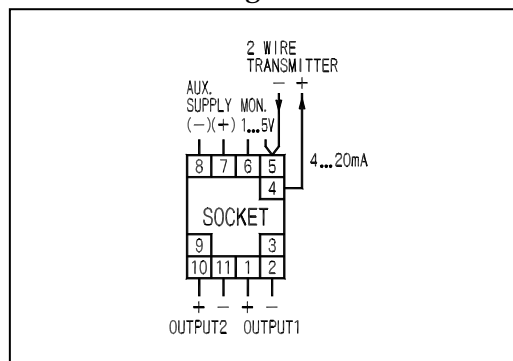
1. Equipped with functions both of a distributor and a signal exchanger, the transducer is for a 2-wire transmitter's use.
2. Short-circuit protection function for transmitter circuit (30mA) .
3. Supplies a 2-wire transmitter with a stable power source.
4. Withstand voltage between 1st output and 2nd 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.
6. DC1-5V (±0.1%) monitoring of the DC4-20mA signal from the transmitter can be done by the terminal No. 5 and No. 6 of the device.



WDTP2-C7H51

(80 × 50 × 133mm/450g)

Connection diagram



Specification

Input (input resistance)	1 st Output (load resistance)	2 nd Output (load resistance)	Auxiliary supply	Common specification
<input checked="" type="checkbox"/> : DC4-20mA (250Ω±0.1%)	<input type="checkbox"/> : DC0-100mV (200Ω) <input type="checkbox"/> : DC0-1V (200Ω) <input type="checkbox"/> : DC0-5V (1kΩ) <input type="checkbox"/> : DC 0-10V (2kΩ) <input type="checkbox"/> : DC1-5V (1kΩ) <input type="checkbox"/> : DC0-1mA (12kΩ) <input type="checkbox"/> : DC0-5mA (2.4kΩ) <input type="checkbox"/> : DC0-10mA (1.2kΩ) <input type="checkbox"/> : DC0-16mA (750Ω) <input type="checkbox"/> : DC1-5mA (2.4kΩ) <input type="checkbox"/> : DC4-20mA (600Ω) <input type="checkbox"/> : other than those above	<input type="checkbox"/> : DC0-100mV (200Ω) <input type="checkbox"/> : DC0-1V (200Ω) <input type="checkbox"/> : DC0-5V (1kΩ) <input type="checkbox"/> : DC 0-10V (2kΩ) <input type="checkbox"/> : DC1-5V (1kΩ) <input type="checkbox"/> : DC0-1mA (7kΩ) <input type="checkbox"/> : DC0-5mA (1.4kΩ) <input type="checkbox"/> : DC0-10mA (700Ω) <input type="checkbox"/> : DC0-16mA (430Ω) <input type="checkbox"/> : DC1-5mA (1.4kΩ) <input type="checkbox"/> : DC4-20mA (350Ω) <input type="checkbox"/> : other than those above	<input type="checkbox"/> : AC100V±10%, 50/60Hz <input type="checkbox"/> : AC110V±10%, 50/60Hz <input type="checkbox"/> : AC200V±10%, 50/60Hz <input type="checkbox"/> : AC220V±10%, 50/60Hz <input type="checkbox"/> : DC24V±10% <input type="checkbox"/> : other than those above	2-wire transmitter power source: DC24-28V (when there is no load) Current capacity: DC22mA MAX Tolerance: ±0.25% Response time: 0.25sec./90% Consumption VA: AC power source:4VA DC power source:3.5W Weight: AC power source:450g DC power source:350g
	<input type="checkbox"/> : DC4-20mA (800Ω) DC1-5V(250kΩ) With output switching function	<input type="checkbox"/> : DC1-5V (1kΩ)	<input type="checkbox"/> : AC100V+10%, -15%, 50/60Hz <input type="checkbox"/> : AC110V+10%, -15%, 50/60Hz <input type="checkbox"/> : AC200V+10%, -15%, 50/60Hz <input type="checkbox"/> : AC220V+10%, -15%, 50/60Hz <input type="checkbox"/> : 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.

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.

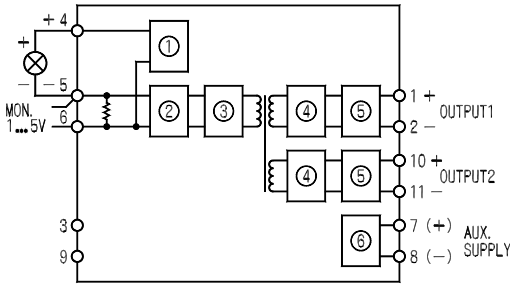
Withstand voltage

- Between input/output/power source : AC2, 000V for 1 min
- Between electric circuit and outer case: AC2, 000V for 1 min
- Between 1st and 2nd output : AC1, 000V for 1 min

Insulation resistance

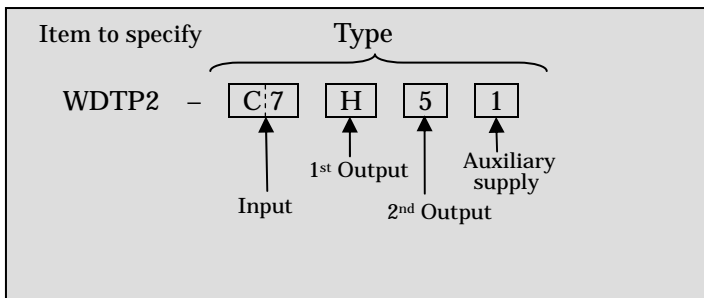
- Between input/output/power source : 50M (at DC500V)
- Between electric circuit and outer case: 50M (at DC500V)
- Between 1st and 2nd output : 50M (at DC500V)

Block diagram



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

Purchase specifications



DISTRIBUTOR WITH SQUARE ROOT EXTRACTION

WSRDTP2 – C 7 □ □ □

Use

Supplies electrical power to a 2-wire transmitter receives a DC4-20mA signal from the transmitter and outputs a DC signal proportional to the square root of the signal.

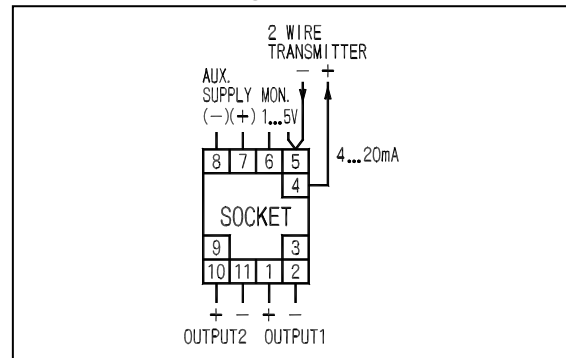
Features

1. Equipped with functions both of a distributor and a signal exchanger, the transducer is for a 2-wire transmitter's use.
2. Short-circuit protection function for transmitter circuit (30mA) .
3. Supplies a 2-wire transmitter with a stable power source.
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.
6. Output under 10% shall be clamped at 0% output by a cut circuit.
7. DC1-5V (±0.1%) monitoring of the DC4-20mA signal from the transmitter can be done by the terminal No. 5 and No. 6 of the device.



WSRDTP2-C7H51
(80 × 50 × 133mm/450g)

Connection diagram



Specification

Input (input resistance)	1 st Output (load resistance)	2 nd Output (load resistance)	Auxiliary supply	Common specification
C: DC4-20mA (250Ω±0.1%)	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) G: 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) G: 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% G: other than those above	2-wire transmitter power source: DC24-28V (when there is no load) Current capacity: DC22mA MAX Tolerance: ±0.25% Response time: 0.25sec./90% Consumption VA: AC power source:4VA DC power source:3.5W Weight: AC power source:450g DC power source:350g
	H: DC4-20mA(800Ω) DC1-5V(250kΩ) With output switching function	S: 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.

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.

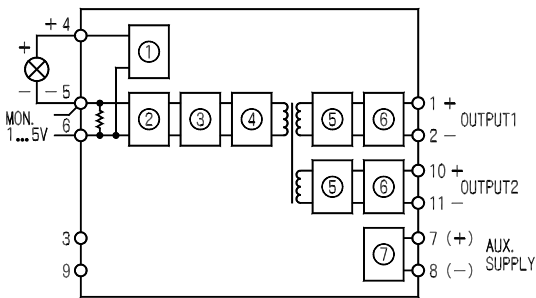
Withstand voltage

Between input/output/power source : AC2, 000V for 1 min
 Between electric circuit and outer case: AC2, 000V for 1 min
 Between 1st and 2nd output : AC1, 000V for 1 min

Insulation resistance

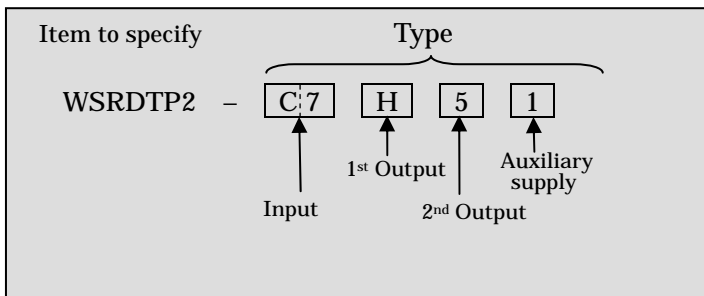
Between input/output/power source : 50M (at DC500V)
 Between electric circuit and outer case: 50M (at DC500V)
 Between 1st and 2nd output : 50M (at DC500V)

Block diagram



Power supply circuit
 Low-drift amplifying circuit
 Square root extracting circuit
 Pulse width modulation circuit
 Pulse width demodulation circuit
 Output circuit
 Insulated power source circuit

Purchase specifications



THERMOELECTRIC TEMPERATURE TRANSDUCER

WHTP2 – □□□□□

Use

By inputting thermal electromotive forces of various kinds of thermocouples based on the JIS, this device insulates and converts thermal electromotive forces into outputs proportional to temperature.

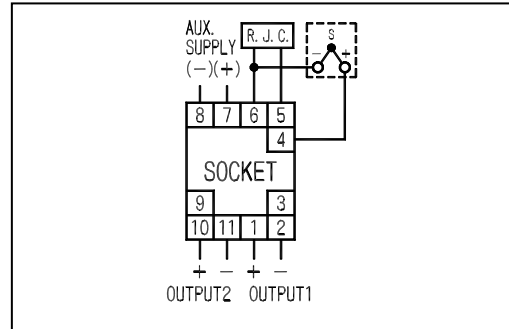


WHTP2-J1H51
(80 × 50 × 133mm/500g)

Features

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

Connection diagram



Specification

Kind of thermo-couple	Standard input range	Input	1 st Output (load resistance)	2 nd Output (load resistance)	Auxiliary supply	Common specification
B	① - ⑨	①: 0-200	①: DC0-100mV (200Ω)	①: DC0-100mV (200Ω)	①: AC100V±10%, 50/60Hz ②: AC110V±10%, 50/60Hz	Tolerance: ±0.5% Response time: 0.5sec./90% Consumption VA: AC power source:3VA DC power source:3.5W Weight: AC power source:500g DC power source:400g
		②: 0-300	②: DC0-1V (200Ω)	②: DC0-1V (200Ω)		
R	① - ⑨	③: 0-400	③: DC0-5V (1kΩ)	③: DC0-5V (1kΩ)	③: AC200V±10%, 50/60Hz ④: AC220V±10%, 50/60Hz	
		④: 0-500	④: DC 0-10V (2kΩ)	④: DC 0-10V (2kΩ)		
S	① - ⑨	⑤: 0-600	⑤: DC1-5V (1kΩ)	⑤: DC1-5V (1kΩ)	⑤: DC24V±10% ⑥: other than those above	
		⑥: 0-800	⑥: DC0-1mA (12kΩ)	⑥: DC0-1mA (7kΩ)		
K	② - ⑤	⑦: 0-1,000	⑦: DC0-5mA (2.4kΩ)	⑦: DC0-5mA (1.4kΩ)	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%,	
		⑧: 0-1,200	⑧: DC0-10mA (1.2kΩ)	⑧: DC0-10mA (700Ω)		
E	① - ⑤	⑨: 0-1,400	⑨: DC0-16mA (750Ω)	⑨: DC0-16mA (430Ω)		
		⑩: other than those above	⑩: DC1-5mA (2.4kΩ)	⑩: DC1-5mA (1.4kΩ)		
J	① - ⑤		⑪: DC4-20mA (600Ω)	⑪: DC4-20mA (350Ω)		
			⑫: other than those above	⑫: other than those above		
T	① - ②		⑬: DC4-20mA (800Ω) DC1-5V(200kΩ) With output switching function	⑬: DC1-5V (1kΩ)		

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. please consult with us for N thermocouple.

Built-in linearizer

Thermal electromotive force of a thermocouple is not proportional to temperature. It is the linearizer that converts thermal electromotive force into an output proportional to temperature.

Built-in burnout

The device detects disconnection of thermocouple and does scale-out of output to positive (+) side. Scale-out to negative (-) side is also manufacturable if specified.

Built-in cold junction compensation

In principle, a thermocouple and compensating wire generate a thermal electromotive force equivalent to $(T_1) - V(T_2)$ as V_{in} . A sensor for compensation RJC compensates for thermal electromotive force equivalent to $V(T_2)$. In addition, the sensor for compensation is connected to terminal part (5, 6), and compensates for the terminal temperature as the temperature of input terminal (4, 6).

Compensating lead wire

A compensating lead wire compensates temperature difference between thermocouple terminals and transducer terminals. Because color (material) of compensating wire varies according to thermocouple type, choose a compensating lead wire in accordance with thermocouple. Match positive and negative polarities when connecting.

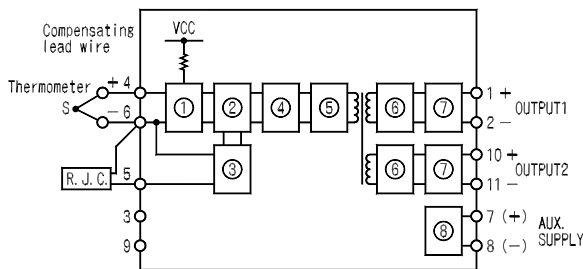
External resistance range

An External resistance range is the resistance value of a reciprocating circuit which consists of thermocouple connected to the transducer, compensating wire, connecting wires and so on. Use the product within an external resistance range less than or equal to 500Ω reciprocally.

Input wiring

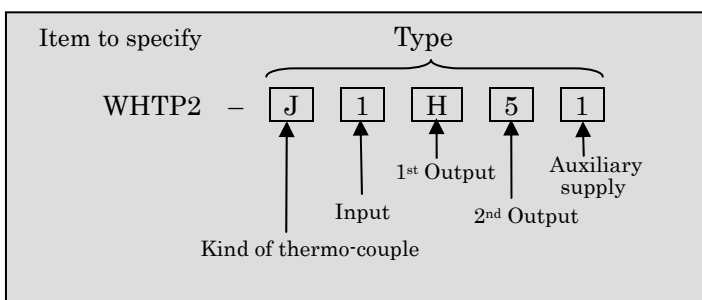
Because signal of input wiring is very weak, try to make the wirings away from noise sources such as an electrical power line, a precipitous voltage or a line with current fluctuation.

Block diagram



- Burnout detecting circuit
- High input resistance amplifying circuit
- Ambient temperature correction circuit
- Linearizer circuit
- Pulse width modulation circuit
- Pulse width demodulation circuit
- Output circuit
- Insulated power source circuit

Purchase specifications



RESISTANCE TEMPERATURE TRANSDUCER

WRHTP2 – □ □ □ □ □

Use

By inputting resistance value of a 3-wire thermal resistance based on the JIS, this device insulates and converts the resistance value into a DC signal proportional to temperature.

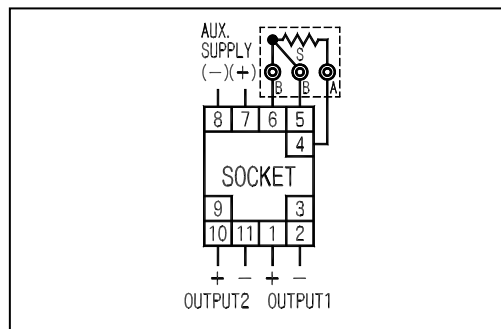


WRHTP2-1A4H51
(80 × 50 × 133mm/500g)

Features

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

Connection diagram



Specification

Kind of resistance thermometer bulb		Input*		1st Output (load resistance)	2nd Output (load resistance)	Auxiliary supply	Common specification
1 Pt, 100Ω at 0	Temperature span 50	A1: 0-50	C5: -20-100	1 DC0-100mV (200Ω)	1 DC0-100mV (200Ω)	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: 0.5sec./90% Consumption VA: AC power source:3VA DC power source:3.5W Weight: AC power source:500g DC power source:400g
		A2: 0-60	C6: -20-120	2 DC0-1V (200Ω)	2 DC0-1V (200Ω)		
2 Pt, 50Ω at 0	Specified current: 2mA	A3: 0-80	D1: -30-50	3 DC0-5V (1kΩ)	3 DC0-5V (1kΩ)		
		A4: 0-100	D2: -30-60	4 DC 0-10V (2kΩ)	4 DC 0-10V (2kΩ)		
3 Cu, 100Ω at 0		A5: 0-120	D3: -30-80	5 DC1-5V (1kΩ)	5 DC1-5V (1kΩ)		
		A6: 0-150	E1: -50-50	A DC0-1mA (12kΩ)	A DC0-1mA (7kΩ)		
4 Cu, 50Ω at 0		A7: 0-200	E2: -50-60	B DC0-5mA (2.4kΩ)	B DC0-5mA (1.4kΩ)		
		A8: 0-300	E3: -50-80	C DC0-10mA (1.2kΩ)	C DC0-10mA (700Ω)		
0 other than those above		B1: -10-40	E4: -50-100	D DC0-16mA (750Ω)	D DC0-16mA (430Ω)		
		B2: -10-50	E5: -50-120	E DC1-5mA (2.4kΩ)	E DC1-5mA (1.4kΩ)		
		B3: -10-60	E6: -50-150	F DC4-20mA (600Ω)	F DC4-20mA (350Ω)		
		C1: -20-40	F1: -70-30	0 other than those above	0 other than those above		
		C2: -20-50	F2: -70-80				
		C3: -20-60	G1: -100-100	H DC4-20mA (800Ω) DC1-5V (250kΩ) With output switching function	I 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%,	
		C4: -20-80	00 other than those above				

* Operating temperature range of thermal resistance: -200- + 650

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 linearizer

Thermal electromotive force of a thermocouple is not proportional to temperature. It is the linearizer that converts thermal electromotive force into an output proportional to temperature.

Built-in burnout

The device detects disconnection of thermocouple and does scale-out of output to positive (+) side. Scale-out to negative (-) side is also manufacturable if specified.

Specified current

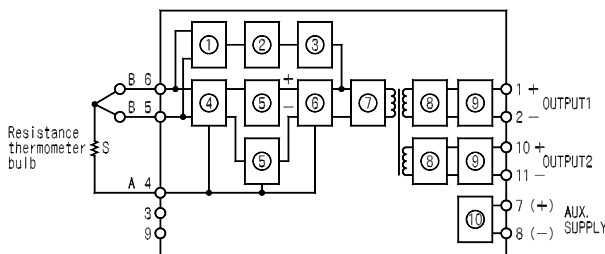
Specified current is a current flowing into a thermal resistance. Change of resistance value can be measured by voltage drop caused by the specified current. In the case of Pt, standard specified current is 2mA.

Built-in external conducting wire resistance compensating circuit

External conducting wire resistance is the resistance value of a conducting wire excluding the resistance value of element S. As the influence of external conducting wire resistance, it does compensate when resistance values of all conducting wires are the same, but it becomes an error when resistance values of all conducting wires are different from each other. Generally, taking into consideration the variousness of conducting wires, use the product under ranges listed in the table below.

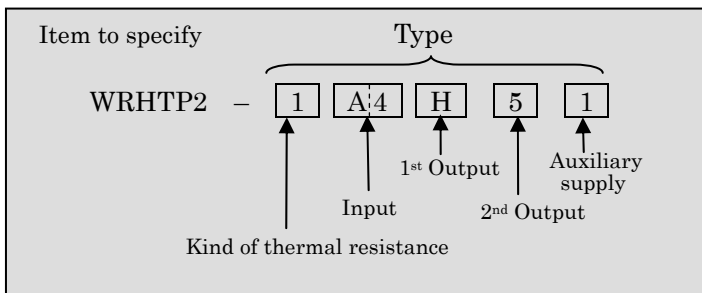
Thermal resistance	External conducting wire resistance	
	Input span 100	50 Input span < 100
Pt 100Ω	10 /line	5 /line
Pt 50Ω	5 /line	2.5 /line
Cu 100Ω	10 /line	5 /line
Cu 50Ω	5 /line	2.5 /line

Block diagram



- Constant current circuit (measuring current)
- Reference voltage circuit
- Linearity correction circuit
- Burnout detecting circuit
- High input resistance amplifying circuit
- Differential amplifying circuit
- Pulse width modulation circuit
- Pulse width demodulation circuit
- Output circuit
- Insulated power source circuit

Purchase specifications



POTENTIOMETER

WRTP2 –

Use

This device replaces the mechanical displacement of an angle or a position by the resistance value change of the potentiometer, then insulates and converts it into a proportional DC signal.

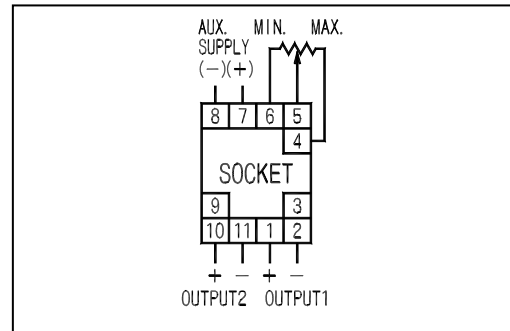


WRTP2-ZH51
(80 × 50 × 133mm/500g)

Features

1. Can cope with resistance range 100Ω-10kΩ of the potentiometer.
2. Constant voltage/current output.
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

Nominal total resistance	External resistance	1 st Output (load resistance)	2 nd Output (load resistance)	Auxiliary supply	Common specification
100Ω	<input checked="" type="checkbox"/> any value within 100Ω-10kΩ If a potentiometer is of the rang 100Ω-10kΩ, it can be used under the following adjustment ranges of output signal.	<input checked="" type="checkbox"/> : DC0-100mV (200Ω)	<input checked="" type="checkbox"/> : DC0-100mV (200Ω)	<input checked="" type="checkbox"/> : AC100V±10%, 50/60Hz	Tolerance: ±0.5% Response time: 0.5sec./90% Consumption VA: AC power source:3VA DC power source:3.5W Weight: AC power source:500g DC power source:400g
135Ω		<input checked="" type="checkbox"/> : DC0-1V (200Ω)	<input checked="" type="checkbox"/> : DC0-1V (200Ω)	<input checked="" type="checkbox"/> : AC110V±10%, 50/60Hz	
200Ω		<input checked="" type="checkbox"/> : DC0-5V (1kΩ)	<input checked="" type="checkbox"/> : DC0-5V (1kΩ)	<input checked="" type="checkbox"/> : AC200V±10%, 50/60Hz	
400Ω		<input checked="" type="checkbox"/> : DC 0-10V (2kΩ)	<input checked="" type="checkbox"/> : DC 0-10V (2kΩ)	<input checked="" type="checkbox"/> : AC220V±10%, 50/60Hz	
500Ω		<input checked="" type="checkbox"/> : DC1-5V (1kΩ)	<input checked="" type="checkbox"/> : DC1-5V (1kΩ)	<input checked="" type="checkbox"/> : DC24V±10%	
1kΩ		<input checked="" type="checkbox"/> : DC0-1mA (12kΩ)	<input checked="" type="checkbox"/> : DC0-1mA (7kΩ)	<input checked="" type="checkbox"/> : other than those above	
2kΩ		<input checked="" type="checkbox"/> : DC0-5mA (2.4kΩ)	<input checked="" type="checkbox"/> : DC0-5mA (1.4kΩ)		
3kΩ		<input checked="" type="checkbox"/> : DC0-10mA (1.2kΩ)	<input checked="" type="checkbox"/> : DC0-10mA (700Ω)		
5kΩ		<input checked="" type="checkbox"/> : DC0-16mA (750Ω)	<input checked="" type="checkbox"/> : DC0-16mA (430Ω)		
10kΩ		<input checked="" type="checkbox"/> : DC1-5mA (2.4kΩ)	<input checked="" type="checkbox"/> : DC1-5mA (1.4kΩ)		
		<input checked="" type="checkbox"/> : DC4-20mA (600Ω)	<input checked="" type="checkbox"/> : DC4-20mA (350Ω)		
		<input checked="" type="checkbox"/> : other than those above	<input checked="" type="checkbox"/> : other than those above		
		<input checked="" type="checkbox"/> : DC4-20mA(800Ω) DC1-5V(250kΩ) With output switching function	<input checked="" type="checkbox"/> : DC1-5V (1kΩ)	<input checked="" type="checkbox"/> : AC100V+10%, -15%, 50/60Hz <input checked="" type="checkbox"/> : AC110V+10%, -15%, 50/60Hz <input checked="" type="checkbox"/> : AC200V+10%, -15%, 50/60Hz <input checked="" type="checkbox"/> : AC220V+10%, -15%, 50/60Hz <input checked="" type="checkbox"/> : DC24V+10%, -15%,	

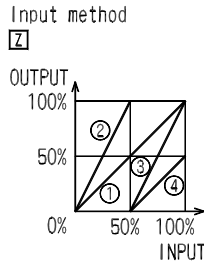
Open of current output: even if the current output terminal is used in a state of regular open, there is no problem. Also, a voltage of approx. 25V occurs on the output terminal.

Adjustment range of output signal

INPUT FORM BIAS adjustment range: 0-50% of input span
 (can be changed from the front of converter.)
 MAX adjustment range: 50-100% of input span
 (can be changed from the front of converter.)

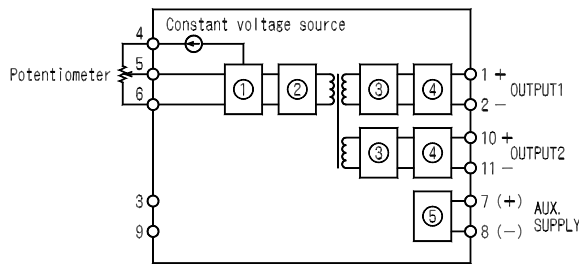
BIAS.....0%, MAX.....100% Standard
 BIAS.....0%, MAX.....50%
 BIAS.....50%, MAX.....50% (parallel shift of)
 BIAS.....50%, MAX.....100% (parallel shift of)

*Being within 0-50% of input value is sufficient for adjusting the output value to zero.



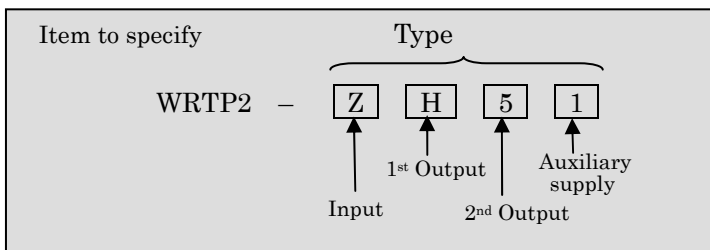
Because this device is potential-free, product is shipped in input of 0-10k /output of above graph (standard) .

Block diagram



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

Purchase specifications



§ PLUG-IN TRANSDUCER § 2-OUTPUT TYPE

AC TRANSDUCER

AC CURRENT TRANSDUCER

WAETP2 - □□□□

CONSTANT VOLTAGE/CURRENT OUTPUT RMS VALUE TYPE

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.

Specification

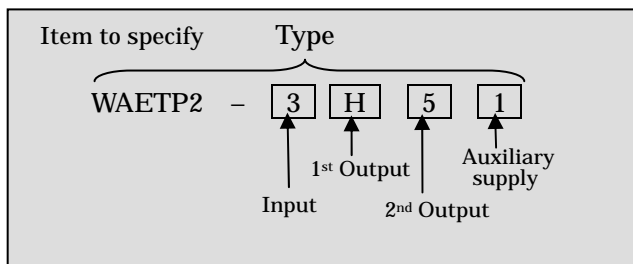
Input	1st Output (load resistance)	2nd Output (load resistance)	Auxiliary supply	Common specification
②: AC0-1A ③: AC0-5A ④: AC0-6A ①: other than those above UD-3 is equipped as a standard for input 1A and 5A.	①: DC0-100mV (200Ω) ②: DC0-1V (200Ω) ③: DC0-5V (1kΩ) ④: DC 0-10V (2kΩ) ⑤: DC1-5V (1kΩ) ①: DC0-1mA (12kΩ) ②: DC0-5mA (2.4kΩ) ③: DC0-10mA (1.2kΩ) ④: DC0-16mA (750Ω) ⑤: DC1-5mA (2.4kΩ) ⑥: DC4-20mA (600Ω) ⑦: 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) ①: DC0-1mA (7kΩ) ②: DC0-5mA (1.4kΩ) ③: DC0-10mA (700Ω) ④: DC0-16mA (430Ω) ⑤: DC1-5mA (1.4kΩ) ⑥: DC4-20mA (350Ω) ⑦: 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% ①: other than those above	Tolerance: ±0.5% Response time: 0.25sec./90% Consumption VA: Input: 0.1VA AC power source:3VA DC power source:3.5W Weight: AC power source:500g DC power source:400g
MAX 10A	⑧: DC4-20mA (800Ω) DC1-5V (250kΩ) With output switching function	⑧: 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.

UD-3 Diode unit (Standard equipment only for rating 5A and 1A)

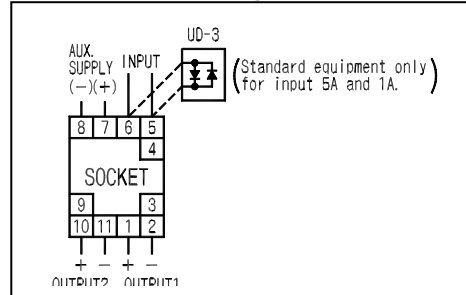
A diode unit for protecting primary CT when changing a current transducer in a hot line state. Because exchange time is diode protecting method, please try to make the exchange time as short as possible.

Purchase specifications

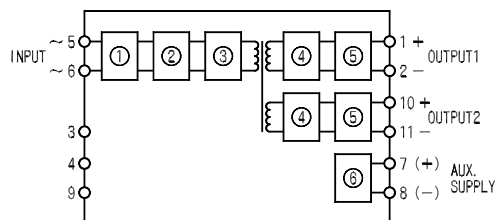


WAETP2-3H51
(80 × 50 × 133mm/500g)

Connection diagram



Block diagram



- Insulated current transformer
- RMS converter circuit
- Pulse width modulation circuit
- Pulse width demodulation circuit
- Output circuit
- Insulated power source circuit

AC VOLTAGE TRANSDUCER

WVETP2 - □□□□

CONSTANT VOLTAGE/CURRENT OUTPUT RMS VALUE TYPE

Use

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

Features

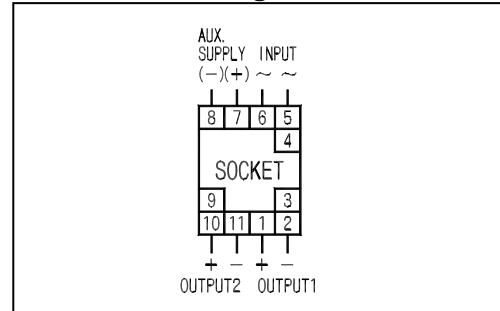
1. Constant voltage/current output.
2. Being a RMS type by adopting a hybrid IC, the device can be used for a distortion or a SCR waveform input.
3. Withstand voltage between input, output, auxiliary supply and outer case is AC2, 000V (50/60Hz), complete insulation for 1 min..
4. Withstand voltage between 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.



WVETP2-3H51

(80 × 50 × 133mm/500g)

Connection diagram

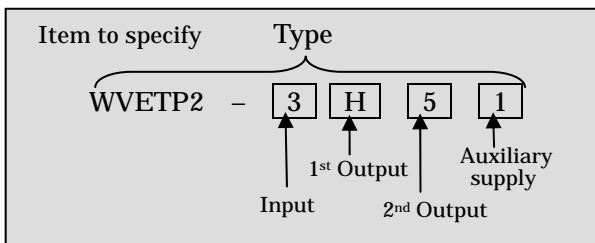


Specification

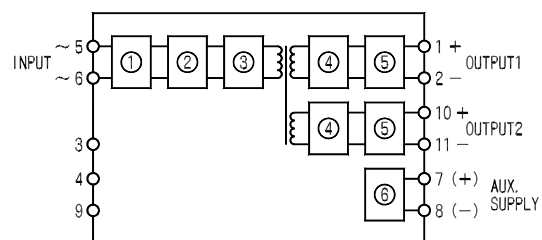
Input	1st Output (load resistance)	2nd Output (load resistance)	Auxiliary supply	Common specification
①: AC0-63.5V ②: AC0-86.6V ③: AC0-110V ④: AC0-127V ⑤: AC0-150V ⑥: AC0-173.2V ⑦: AC0-220V ⑧: AC0-300V ⑨: other than those above UD-3 is equipped as a standard for input 1A and 5A.	①: DC0-100mV(200Ω) ②: 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) G: other than those above H: DC4-20mA(800Ω) DC1-5V(250kΩ) With output switching function	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) G: other than those above H: DC1-5V (1kΩ)	①: AC100V±10%, 50/60Hz ②: AC110V±10%, 50/60Hz ③: AC200V±10%, 50/60Hz ④: AC220V±10%, 50/60Hz ⑤: DC24V±10% ⑥: other than those above 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%	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
MAX 300V				

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



- Insulated current transformer
- RMS converter circuit
- Pulse width modulation circuit
- Pulse width demodulation circuit
- Output circuit
- Insulated power source circuit

FREQUENCY TRANSDUCER

WFTP2 - □□□□□

CONSTANT VOLTAGE/CURRENT OUTPUT TYPE

Use

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

Features

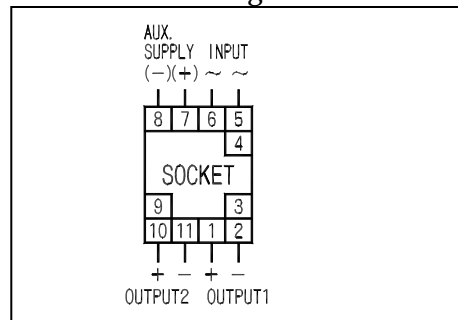
1. Constant voltage/current output.
2. Withstand voltage between input, output, auxiliary supply and outer case is AC2, 000V (50/60Hz), complete insulation for 1 min..
3. Withstand voltage between 1st output and 2nd output is AC1, 000V.
4. Impulse withstands voltage 5kV, 1.2/50μs (between electric circuit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



WFTP2-31H51

(80 × 50 × 133mm/50

Connection diagram

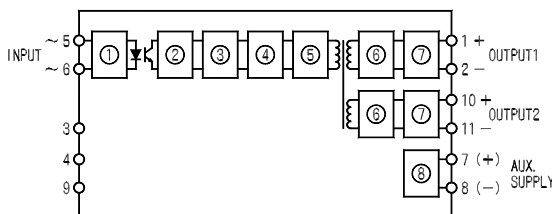


Specification

Input	Rating voltage	1st Output (load resistance)	2nd Output (load resistance)	Auxiliary supply	Common specification
1: 45-55Hz 2: 55-65Hz 3: 45-65Hz 0: other than those above	1: AC110V ±10% 2: AC220V ±10% 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 (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: 0.5sec./90% Consumption VA: Input 0.7VA (110V) 1.4V (220V) 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	G: 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%	

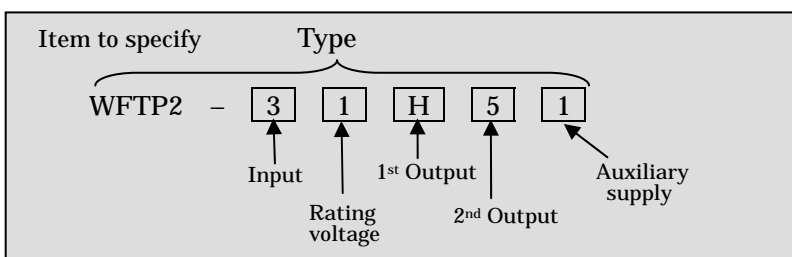
Open of current output: even if the current output terminal is used in a state of regular open, there is no problem. Also, a voltage of approx. 25V occurs on the output terminal.

Block diagram



- Input circuit
- Monostable detecting circuit
- Pulse conversion DC circuit
- Smoothing circuit
- Pulse width modulation circuit
- Pulse width demodulation circuit
- Output circuit
- Insulated power source circuit

Purchase specifications



§ PLUG-IN TRANSDUSER §

Dimension

Dimensions (mm)

Fig.1

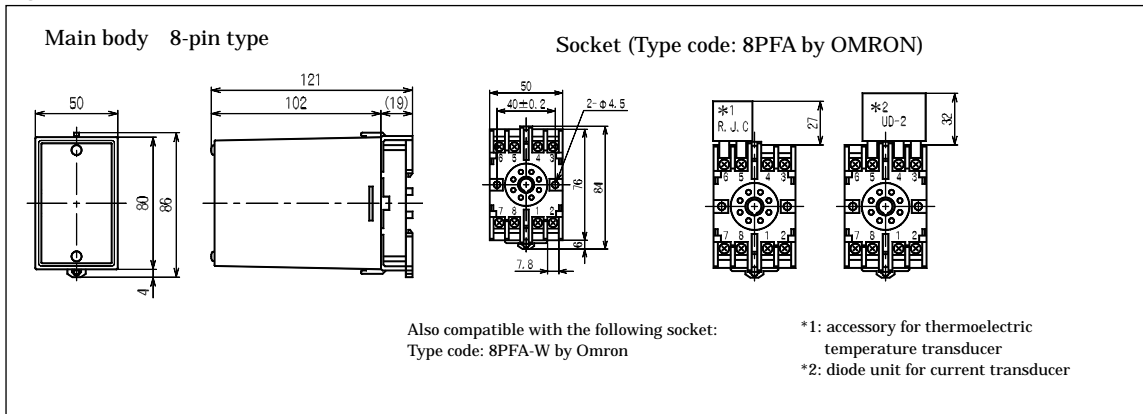


Fig.2

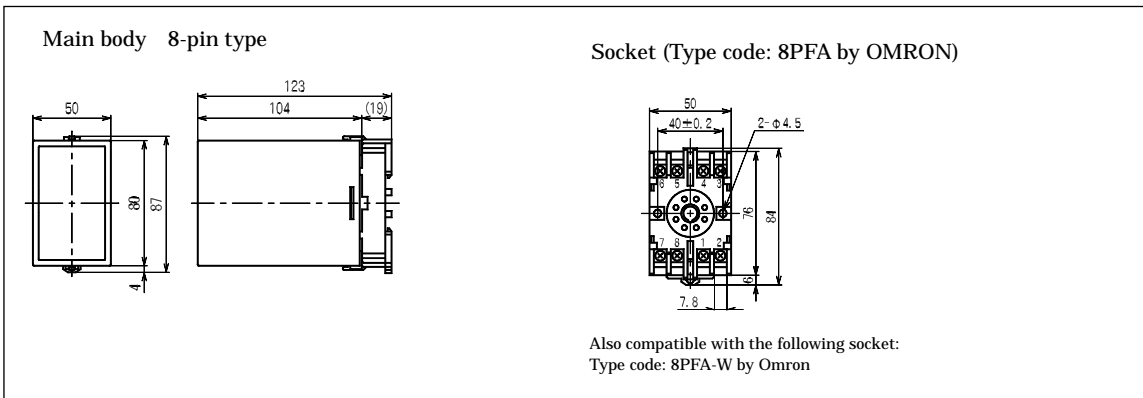
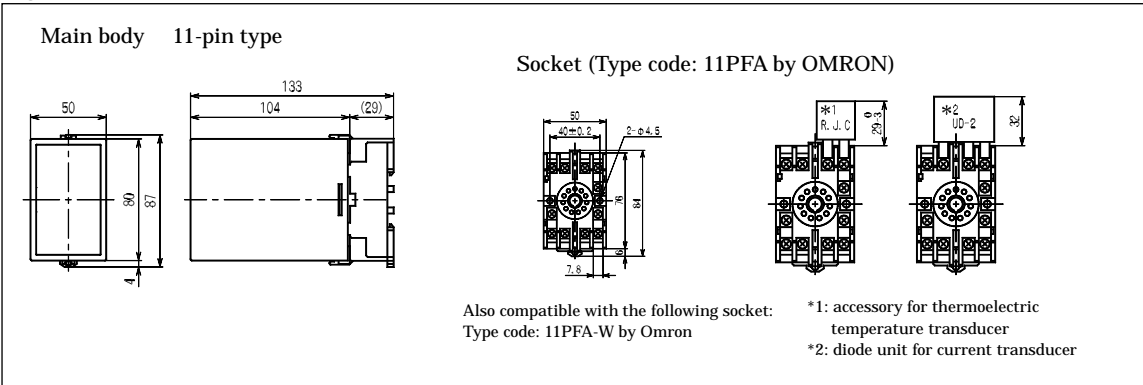


Fig.3



Multiple unit installation (mm)

