

CONVERTER

■ Temperature Converter	SERIES CP2RT
■ Temperature Difference Converter	SERIES CP2RD
■ Potentiometer Converter	SERIES CP2RP
■ AC-DC Converter	SERIES CP2MA
■ DC-DC Converter	SERIES CP2MD
■ Frequency-DC Converter	SERIES CP2MF
■ Manual Station	SERIES CP2SM
■ Alarm Setter	SERIES CP2SA
■ High / Low Selector (Comparator)	SERIES CP2EC
■ Limiter	SERIES CP2CL
■ Reverse Acting Converter	SERIES CP2CY
■ DC Voltage Regulator	SERIES CP2UE
■ DC Current Regulator	SERIES CP2UC
■ Distributor	SERIES CP2CD
■ Signal Isolator	SERIES CP2CI
■ Track-Hold Converter	SERIES CP2CH
■ Rate Limiter	SERIES CP2CR
■ Distributor	SERIES CP2CS
■ Doubler-Inverter	SERIES CP2CX
■ Two-Input Adder	SERIES CP2EA
■ Two-Input Average Converter	SERIES CP2EH
■ Square Root Extractor	SERIES CP2ER
■ Two-Input Subtractor	SERIES CP2ES
■ DC-Frequency Converter	SERIES CP2MP
■ Ratio & Bias Setter	SERIES CP2SR
■ Heater Breakdown Detector	SERIES HB20
■ Heater Breakdown Detector	SERIES HB21

CONVERTER

SERIES CP2

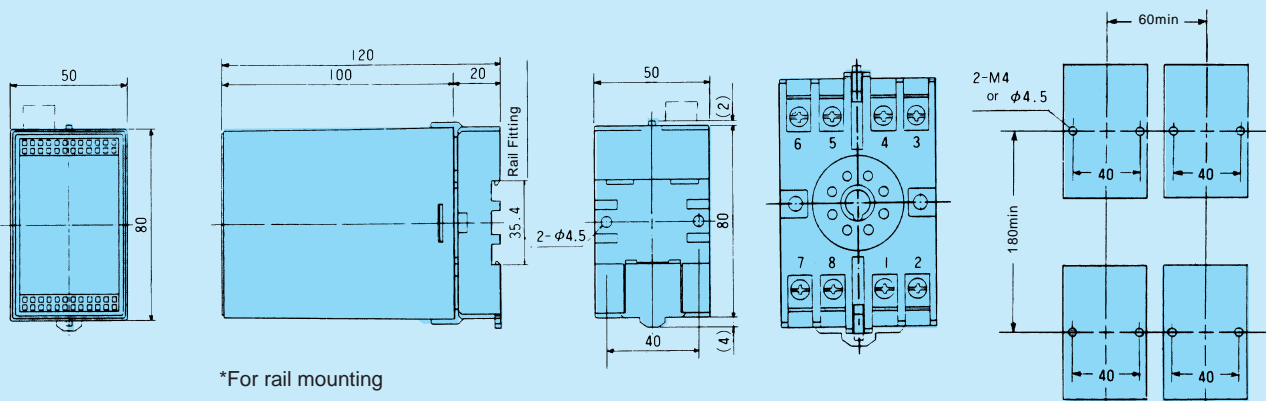
- Small Size: 80 (H) × 50 (W) mm
- Input / Output Isolation
- Plug-in Type



COMMON SPECIFICATIONS

Input / Output Isolation:	Standard
Operating Ambient Temperature Range:	-10~+50 °C
Operating Ambient Humidity:	90% RH max.
Power Consumption:	Approx. 3VA (AC) / 120mA (DC)
Insulation Resistance:	500V DC 100M Ω between the input and output terminals 500V DC 100M Ω between the input / output terminals and the power supply terminals
Dielectric Strength:	1 min. at 1000V AC between the input / output terminals and the power supply terminals 1 min. at 1500V AC between the input and output terminals
External Dimensions:	80 (H) × 50 (W) × 120 (D) mm
Mounting:	Panel mounted 8-point plug-in type or DIN rail mounting
Weight:	Approx. 350g

EXTERNAL DIMENSIONS & TERMINAL ARRANGEMENT

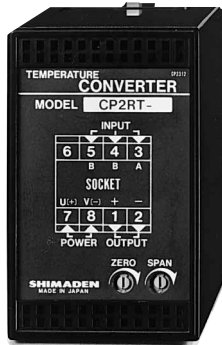
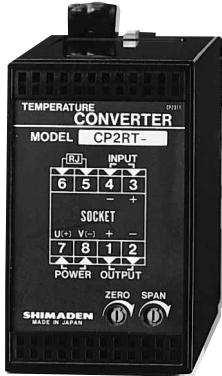


*For rail mounting

Unit: mm

CP2RT TEMPERATURE CONVERTER

Conversion Output		Cold Junction Temp.	
Adjustment Range:	±4% (ZREO and SPAN)	Compensation Range:	5~45°C
Response Time:	500 msec. max. (0~90%)	Input Resistance:	1MΩ
Repeatability:	±0.1% FS	External Resistance	
Conversion Accuracy:	±0.3% FS / Linearized output (at 23°C)	Tolerance:	100 Ω max.
Burnout Circuit:	Standard (upscale)	R.T.D. Input:	Pt100 (3-wire type)
Thermocouple Input:	T, E, J, K, N, R, S, B	Amperage:	2mA
		R.T.D. Lead Wire	
		Tolerable Resistance:	5Ω max. per wire



ITEMS	CODE	SPECIFICATIONS
SERIES	CP2RT-	Temperature Converter
INPUT	1	Thermocouple, T, E, J, K, N, R, S, B, Input Resistance: 1MΩ
	2	R.T.D. (Pt100), Amperage: 2mA, 3-wire type
CONVERSION OUTPUT	1	0~10mV DC / FS, Output Resistance: 5Ω
	2	0~100mV DC / FS, Output Resistance: 50Ω
	3	0~1V DC / FS, Max. Current: 2mA
	4	0~10V DC / FS, Max. Current: 2mA
	5	1~5V DC / FS, Max. Current: 2mA
	6	4~20mA DC / FS, Load Resistance: 600Ω max.
	9	Others (Please consult before ordering.)
POWER SUPPLY	02-	24V DC ±10%
	13-	100~110V AC ±10%, 50 / 60Hz
	14-	110~120V AC ±10%, 50 / 60Hz
	15-	200~220V AC ±10%, 50 / 60Hz
	16-	220~240V AC ±10%, 50 / 60Hz
	99-	Others (Please consult before ordering.)
INPUT STANDARD	J	JIS
	D	DIN
	A	ANSI
	F	JIS (New PT100-JIS)
	X	Others (Please consult before ordering.)
TYPE OF INPUT	T	Thermocouple (T)
	E	Thermocouple (E)
	J	Thermocouple (J)
	K	Thermocouple (K)
	N	Thermocouple (N)
	R	Thermocouple (R)
	S	Thermocouple (S)
	B	Thermocouple (B)
	P	R.T.D. (Pt100)
	X	Others (Please consult before ordering.)
MEASURING RANGE	□□□□	See Measuring Range Codes.
LEGEND	C	°C
	F	°F
	X	Others (Please consult before ordering.)
REMARKS	0	Without
	9	With (Please consult before ordering.)

MEASURING RANGE CODES

INPUT	RANGE	CODE
R.T.D. (Pt100)	-100~+100 °C	016
	-100~ +50 °C	018
	-60~ +40 °C	029
	-50~+100 °C	036
	-20~ +80 °C	053
	-10~ +50 °CΔ	063
	0~ 50 °CΔ	211
	0~ 100 °C	219
	0~ 150 °C	223
	0~ 200 °C	226
	0~ 250 °C	228
	0~ 300 °C	230
	0~ 350 °C	235
0~ 400 °C	240	
Thermocouple	T	-100~+100 °C Δ 016
	T	-50~+150 °C Δ 035
	E	0~ 150 °C Δ 223
	E	0~ 300 °C 230
	N	0~ 400 °C 240

INPUT	RANGE	CODE	
Thermocouple	J	0~ 200 °CΔ 226	
	J	0~ 300 °C 230	
	J	0~ 400 °C 240	
	K	0~ 300 °C	230
		0~ 400 °C	240
		0~ 500 °C	250
		0~ 600 °C	260
		0~ 800 °C	308
		0~ 1000 °C	310
	R	0~ 1200 °C	312
		S	0~ 1400 °C (500~) 314
		R	0~ 1400 °C (500~) 314
		B	0~ 1600 °C (500~) 316
R.T.D. (Pt100)	0~ 1800 °C (500~) 318		
	0~ 120 °FΔ 221		
	0~ 200 °F 226		
	0~ 300 °F 230		
	0~ 400 °F 240		
	0~ 500 °F 250		
0~ 600 °F 260			

INPUT	RANGE	CODE
R.T.D. (Pt100)	0~ 700 °F	307
	0~ 800 °F	308
Thermocouple	T	-200~+200 °F Δ 004
	T	-120~+300 °F Δ 013
	E	0~ 300 °F (32~) Δ 230
		0~ 600 °F (32~) 260
		0~ 800 °F (32~) 308
	J	0~ 400 °F (32~) 240
		0~ 600 °F (32~) 260
		0~ 800 °F (32~) 308
		0~ 600 °F (32~) 260
		0~ 800 °F (32~) 308
0~ 600 °F (32~) 260		
K	0~ 800 °F (32~) 308	
	0~ 1000 °F (32~) 310	
	0~1200 °F (32~) 312	
	0~1500 °F (32~) 315	
	0~1800 °F (32~) 318	
S	0~2000 °F (32~) 320	
R	0~2600 °F (900~) 326	
	0~2600 °F (900~) 326	
	0~2900 °F (900~) 329	
B	0~3200 °F (1400~) 332	

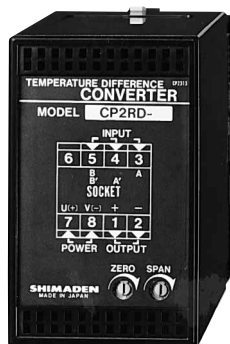
Δ Accuracy for this range will be ±0.5 %FS.

() The value parentheses shows the minimum temperature in the standard accuracy measuring range

CONVERTER

CP2RD TEMPERATURE DIFFERENCE CONVERTER

Input:	Pt100 (2-wire type)
No. of Inputs:	2 (reference / A', B' and comparison / A, B)
Amperage:	2mA
Conversion Accuracy:	±1% of temperature difference range (at 23 °C)
R.T.D. Lead Wire Tolerable Resistance:	5Ω max. per wire
R.T.D. Lead Wire Resistance Difference:	The ZERO and SPAN can only be adjusted when the resistance difference between the 2 R.T.D.'s is 0.2 Ω max.



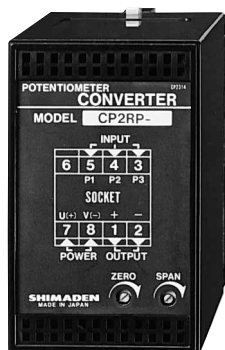
ITEMS	CODE		SPECIFICATIONS
SERIES	CP2RD-		Temperature Difference Converter
INPUT	2		R.T.D.(Pt100), 2-wire type, Current: 2mA
CONVERSION OUTPUT	1		0~10mV DC / FS, Output Resistance: 5Ω
	2		0~100mV DC / FS, Output Resistance: 50 Ω
	5		1~5V DC / FS, Load Current: 2mA max.
	6		4~20mA DC / FS, Load Resistance: 600 Ωmax.
	7		-10~+10mV DC / FS, Output Resistance: 50 Ω
	8		-100~+100mV DC / FS, Output Resistance: 500 Ω
POWER SUPPLY	9		Others (Please consult before ordering.)
	02-		24V DC ±10%
	13-		100~110V AC ±10%, 50 / 60Hz
	14-		110~120V AC ±10%, 50 / 60Hz
	15-		200~220V AC ±10%, 50 / 60Hz
INPUT STANDARD	16-		220~240V AC ±10%, 50 / 60Hz
	99		Others (Please consult before ordering.)
	J		JIS
	D		DIN
TYPE OF INPUT	F		JIS (New Pt100-JIS)
	X		Others (Please consult before ordering.)
	P		R.T.D. (Pt100)
WORKING TEMPERATURE	X		Others (Please consult before ordering.)
	A		-20~+30 °C
	B		0~ 50 °C
	C		50~100 °C
MEASURING RANGE	X		Others (Please consult before ordering.)
		□□□	See temperature difference range codes.
LEGEND		C	°C
		F	°F
		X	Others(Please consult before ordering.)
REMARKS		0	Without
		9	With(Please consult before ordering.)

TEMPERATURE DIFFERENCE RANGE CODES

INPUT	TEMP. DIFFERENCE RANGE	CODE
R.T.D.	-10 ~+10 °C	064
(Pt100)	-20 ~+20 °C	057
	0 ~+20 °C	204

CP2RP POTENTIOMETER CONVERTER

Input:	Potentiometer (3-wire input)
Conversion Accuracy:	±0.3% FS (at 23 °C)
Span Adjustment Range:	0~-50%
Zero Adjustment Range:	50~0%
Response Time:	500 msec. max. (0~90%)
Repeatability:	±0.1% of input range



ORDERING INFORMATION

ITEMS	CODE		SPECIFICATIONS
SERIES	CP2RP-		Potentiometer Converter
INPUT	5		100 Ω~10K Ω Random (3-wire)
CONVERSION OUTPUT	9		Others (Please consult before ordering.)
	1		0~10mV DC / FS, Output Resistance: 5Ω
	2		0~100mV DC / FS, Output Resistance: 50 Ω
	3		0~1V DC / FS, Max. Current: 2mA
	4		0~10V DC / FS, Max. Current: 2mA
	5		1~5V DC / FS, Max. Current: 2mA
POWER SUPPLY	6		4~20mA DC / FS, Load Resistance: 600Ω max
	9		Others (Please consult before ordering.)
	02-		24V DC ±10%
	13-		100~110V AC ±10%, 50 / 60Hz
	14-		110~120V AC ±10%, 50 / 60Hz
REMARKS	15-		200~220V AC ±10%, 50 / 60Hz
	16-		220~240V AC ±10%, 50 / 60Hz
	99-		Others (Please consult before ordering.)
		0	Without
	9	With (Please consult before ordering.)	

CP2MA AC-DC CONVERTER

Conversion Method: Root mean square (RMS) operation
 Conversion Accuracy: ±1% of input range (at 23°C)
 Response Time: 500 msec. max. (0 ~90%)
 Repeatability: ±0.1%
 Output Ripple: ±0.5% FS
 Operation Frequency Zone: Commercial frequency
 Conversion Output Adjustment Range: ±4% FS (ZERO and SPAN)



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2MA-	AC-DC Converter
INPUT	01	0~110V AC / FS
	02	0~150V AC / FS
	03	0~220V AC / FS
	04	0~250V AC / FS
	21	0~1A AC / FS
	22	0~5A AC / FS
	99	Others (Please consult before ordering.)
CONVERSION OUTPUT	1	0~10mV DC / FS, Output Resistance: 5Ω
	2	0~100mV DC / FS, Output Resistance: 50Ω
	3	0~1V DC / FS, Max. Current: 2mA
	4	0~10V DC / FS, Max. Current: 2mA
	5	1~5V DC / FS, Max. Current: 2mA
	6	4~20mA DC / FS, Load Resistance: 600 Ω max
POWER SUPPLY	02-	24V DC ±10%
	13-	100 ~110V AC ±10%, 50 / 60Hz
	14-	110 ~120V AC ±10%, 50 / 60Hz
	15-	200 ~220V AC ±10%, 50 / 60Hz
	16-	220 ~240V AC ±10%, 50 / 60Hz
REMARKS	0	Without
	9	With (Please consult before ordering.)

CP2MD DC-DC CONVERTER

Conversion Accuracy: ±0.3% of input range (at 23°C)
 Response Time: 200 msec. max. (0~90%)
 Repeatability: ±0.1% of input range
 Conversion Output Adjustment Range: ±4% FS (ZERO and SPAN)



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2MD-	DC-DC Converter
INPUT	1	0~10mV DC / FS, Input Resistance: 1MΩ
	2	0~100mV DC / FS, Input Resistance: 1MΩ
	3	0~1V DC / FS, Input Resistance: 1MΩ
	4	0~10V DC / FS, Input Resistance: 1MΩ
	5	1~5V DC / FS, Input Resistance: 1MΩ
	6	4~20mA DC / FS, Receiving Impedance: 62 Ω
CONVERSION OUTPUT	9	Others (Please consult before ordering.)
	1	0~10mV DC / FS, Output Resistance: 5Ω
	2	0~100mV DC / FS, Output Resistance: 50 Ω
	3	0~1V DC / FS, Max. Current: 2mA
	4	0~10V DC / FS, Max. Current: 2mA
	5	1~5V DC / FS, Max. Current: 2mA
POWER SUPPLY	6	4~20mA DC / FS, Load Resistance: 600 Ω max
	9	Others (Please consult before ordering.)
	02-	24V DC ±10%
	13-	100 ~110V AC ±10%, 50 / 60Hz
	14-	110 ~120V AC ±10%, 50 / 60Hz
REMARKS	0	Without
	9	With (Please consult before ordering.)

CONVERTER

CP2MF FREQUENCY-DC CONVERTER

Input Level:	Low Level / 0~0.8V max. High Level / Within 2~30V
Input Resistance:	10k Ω
Conversion Accuracy:	Measuring range of 1kHz or less / $\pm 0.5\%$ FS (at 23°C) Measuring range of more than 1kHz / $\pm 1.0\%$ FS (at 23°C)
Linearity:	$\pm 0.5\%$ FS
Repeatability:	$\pm 0.1\%$ FS
Output Ripple:	$\pm 0.5\%$ FS
Conversion Output Adjustment Range:	$\pm 4\%$ FS (ZERO and SPAN)



MEASURING FREQUENCY RANGE CODES

RANGE	CODE
0~ 200Hz	726
0~ 500Hz	750
0~1000Hz	810
0~2000Hz	820
0~5000Hz	841

ITEMS	CODE		SPECIFICATIONS
SERIES	CP2MF-		Frequency-DC Converter
INPUT	3		Voltage
	9		Others (Please consult before ordering.)
CONVERSION OUTPUT	1		0~10mV DC / FS, Output Resistance: 5 Ω
	2		0~100mV DC / FS, Output Resistance: 50 Ω
	3		0~1V DC / FS, Max. Current: 2mA
	4		0~10V DC / FS, Max. Current: 2mA
	5		1~5V DC / FS, Max. Current: 2mA
	6		4~20mA DC / FS, Load Resistance: 600 Ω max
	9		Others (Please consult before ordering.)
POWER SUPPLY	02-		24V DC $\pm 10\%$
	13-		100~110V AC $\pm 10\%$, 50 / 60Hz
	14-		110~120V AC $\pm 10\%$, 50 / 60Hz
	15-		200~220V AC $\pm 10\%$, 50 / 60Hz
	16-		220~240V AC $\pm 10\%$, 50 / 60Hz
	99-		Others (Please consult before ordering.)
MEASURING FREQUENCY RANGE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		See Measuring Frequency Range Codes.
LEGEND		Z	Hertz (Hz)
REMARKS		0	Without
		9	With (Please consult before ordering.)

CP2SM MANUAL STATION

Setting Method:	2-digit setting switch
Setting Resolution:	1%
Setting Accuracy:	$\pm 0.3\%$ FS (at 23°C)
Linearity:	$\pm 0.1\%$ FS
Repeatability:	$\pm 0.1\%$ FS
Conversion Output Adjustment Range:	$\pm 4\%$ FS (ZERO and SPAN)



ORDERING INFORMATION

ITEMS	CODE		SPECIFICATIONS
SERIES	CP2SM-		Manual Station
SETTING RANGE	1		0~99%
	9		Others (Please consult before ordering.)
SETTING OUTPUT (Corresponding to 0~100%)	1		0~10mV DC / FS, Output Resistance: 5 Ω
	2		0~100mV DC / FS, Output Resistance: 50 Ω
	3		0~1V DC / FS, Max. Current: 2mA
	4		0~10V DC / FS, Max. Current: 2mA
	5		1~5V DC / FS, Max. Current: 2mA
	6		4~20mA DC / FS, Load Resistance: 600 Ω max
	9		Others (Please consult before ordering.)
POWER SUPPLY	02-		24V DC $\pm 10\%$
	13-		100~110V AC $\pm 10\%$, 50 / 60Hz
	14-		110~120V AC $\pm 10\%$, 50 / 60Hz
	15-		200~220V AC $\pm 10\%$, 50 / 60Hz
	16-		220~240V AC $\pm 10\%$, 50 / 60Hz
	99-		Others (Please consult before ordering.)
REMARKS		0	Without
		9	With (Please consult before ordering.)

CP2SA ALARM SETTER

Alarm Setting Method: 2-digit setting switch
 Alarm Setting Accuracy: ±1% of setting range
 Repeatability: 0.2% of input range



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS	
SERIES	CP2SA-	Alarm Setter	
INPUT	1	0~10mV DC / FS, Input Resistance: 1M Ω	
	2	0~100mV DC / FS, Input Resistance: 1M Ω	
	3	0~1V DC / FS, Input Resistance: 1M Ω	
	4	0~10V DC / FS, Input Resistance: 1M Ω	
	5	1~5V DC / FS, Input Resistance: 1M Ω	
	6	4~20mA DC / FS, Receiving Impedance: 62 Ω	
	9	Others (Please consult before ordering.)	
	ALARM OPERATION	01	Low Alarm
		02	High Alarm
03		High / Low Alarm	
07		Low / Low Alarm	
08		High / High Alarm	
99		Others (Please consult before ordering.)	
POWER SUPPLY	02-	24V DC ± 10%	
	13-	100~110V AC ± 10%, 50 / 60Hz	
	14-	110~120V AC ± 10%, 50 / 60Hz	
	15-	200~220V AC ± 10%, 50 / 60Hz	
	16-	220~240V AC ± 10%, 50 / 60Hz	
	99-	Others (Please consult before ordering.)	
REMARKS	0	Without	
	9	With (Please consult before ordering.)	

CP2EC HIGH / LOW SELECTOR (COMPARATOR)

No. of Inputs: 2
 No. of Output: 1
 Response Time: 500 msec. max. (0~90%)
 Repeatability: ±0.2% of input range



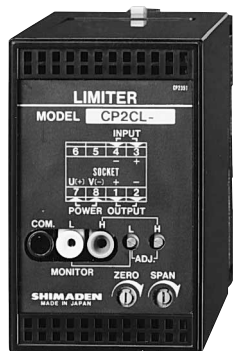
ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2EC-	High / Low Selector (Comparator)
OPERATION	H	High Selector (Inputs are compared and highest value is output.)
	L	Low Selector (Inputs are compared and lowest value is output.)
NO. OF INPUTS	02	Two (2) Inputs
	99	Others (Please consult before ordering.)
INPUT / OUTPUTS	1	0~10mV DC / FS, Input Resistance: 1MΩ Output Resistance: 5Ω
	2	0~100mV DC / FS, Input Resistance: 1MΩ, Output Resistance: 50Ω
	3	0~1V DC / FS, Input Resistance: 1MΩ Max. Current: 2mA
	4	0~10V DC / FS, Input Resistance: 1MΩ Max. Current: 2mA
	5	1~5V DC / FS, Input Resistance: 1MΩ Max. Current: 2mA
	6	4~20mA DC / FS, Receiving Impedance: 62 Ω Load Resistance: 600 Ω max.
POWER SUPPLY	9	Others (Please consult before ordering.)
	02-	24V DC ± 10%
	13-	100~110V AC ± 10%, 50 / 60Hz
	14-	110~120V AC ± 10%, 50 / 60Hz
	15-	200~220V AC ± 10%, 50 / 60Hz
	16-	220~240V AC ± 10%, 50 / 60Hz
REMARKS	0	Without
	9	With (Please consult before ordering.)

CONVERTER

CP2CL LIMITER

Setting Accuracy:	±0.5% of setting range
Setting Range:	High Limit / 50~100% of input range Low Limit / 0~50% of input range
Setting Monitor Voltage:	0~10V DC / 0~100%
Response Time:	200 msec. max. (0~90%)
Repeatability:	±0.1% of input range
Conversion Output Adjustment Range:	±4% FS (ZERO and SPAN)



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS	
SERIES	CP2CL-	Limiter	
INPUT	1	0~10mV DC / FS, Input Resistance: 1MΩ	
	2	0~100mV DC / FS, Input Resistance: 1MΩ	
	3	0~1V DC / FS, Input Resistance: 1MΩ	
	4	0~10V DC / FS, Input Resistance: 1MΩ	
	5	1~5V DC / FS, Input Resistance: 1MΩ	
	6	4~20mA DC / FS, Receiving Impedance: 62Ω	
	9	Others (Please consult before ordering.)	
	OUTPUT	1	0~10mV DC / FS, Output Resistance: 5Ω
		2	0~100mV DC / FS, Output Resistance: 50Ω
3		0~1V DC / FS, Max. Current: 2mA	
4		0~10V DC / FS, Max. Current: 2mA	
5		1~5V DC / FS, Max. Current: 2mA	
6		4~20mA DC / FS, Load Resistance: 600 max.	
9		Others (Please consult before ordering.)	
POWER SUPPLY		02-	24V DC ±10%
		13-	100~110V AC ±10%, 50 / 60Hz
	14-	110~120V AC ±10%, 50 / 60Hz	
	15-	200~220V AC ±10%, 50 / 60Hz	
	16-	220~240V AC ±10%, 50 / 60Hz	
	99-	Others (Please consult before ordering.)	
REMARKS	0	Without	
	9	With (Please consult before ordering.)	

CP2CY REVERSE ACTING CONVERTER

Conversion Accuracy:	±0.3% of input range (at 23°C)
Response Time:	200 msec. max. (0~90%)
Repeatability:	±0.1% FS of input range
Conversion Output Adjustment Range:	±4% FS (ZERO and SPAN)



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS	
SERIES	CP2CY-	Reverse Acting Converter	
INPUT	1	0~10mV DC / FS, Input Resistance: 1MΩ	
	2	0~100mV DC / FS, Input Resistance: 1MΩ	
	3	0~1V DC / FS, Input Resistance: 1MΩ	
	4	0~10V DC / FS, Input Resistance: 1MΩ	
	5	1~5V DC / FS, Input Resistance: 1MΩ	
	6	4~20mA DC / FS, Receiving Impedance: 62Ω	
	9	Others (Please consult before ordering.)	
	OUTPUT	1	10~0mV DC / FS, Output Resistance: 5Ω
		2	100~0mV DC / FS, Output Resistance: 50Ω
3		1~0V DC / FS, Max. Current: 2mA	
4		10~0V DC / FS, Max. Current: 2mA	
5		5~1V DC / FS, Max. Current: 2mA	
6		20~4mA DC / FS, Load Resistance: 600 max.	
9		Others (Please consult before ordering.)	
POWER SUPPLY		02-	24V DC ±10%
		13-	100~110V AC ±10%, 50 / 60Hz
	14-	110~120V AC ±10%, 50 / 60Hz	
	15-	200~220V AC ±10%, 50 / 60Hz	
	16-	220~240V AC ±10%, 50 / 60Hz	
	99-	Others (Please consult before ordering.)	
REMARKS	0	Without	
	9	With (Please consult before ordering.)	

CP2UE DC VOLTAGE REGULATOR

Output voltage / ratings: 12V DC $\pm 4\%$ / 250mA DC
 24V DC $\pm 4\%$ / 125mA DC
 Ripple voltage: 12V DC / 120 mVp-p max.
 24V DC / 120 mVp-p max.

Power supply voltage: 100~240V AC $\pm 10\%$ 47~63Hz
 Rush current: 15A maximum (at output current of 100%)
 Current consumption: approx. 70mA max.



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2UE-	DC voltage regulator
OUTPUT	12	12V DC $\pm 4\%$ / 250mA
	24	24V DC $\pm 4\%$ / 125mA
REMARKS	0	Without
	9	With (Please consult before ordering.)

CP2UC DC CURRENT REGULATOR

Rated Current Characteristic: $\pm 0.5\%$ at 0~100% load fluctuation
 Output Ripple: 0.5%FS max



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2UC-	DC Current Regulator
OUTPUT	12	12mA DC, Load Resistance: 1.6k Ω max.
	20	20mA DC, Load Resistance: 1k Ω max.
	99	Others (Please consult before ordering.)
POWER SUPPLY	11-	100~110V / 200~220V AC $\pm 10\%$, 50 / 60Hz
	12-	110~120V / 220~240V AC $\pm 10\%$, 50 / 60Hz
	99-	Others (Please consult before ordering.)
REMARKS	0	Without
	9	With (Please consult before ordering.)

CP2CD DISTRIBUTOR

Input Signal: 4~20mA DC
 Receiving Resistance: 250 Ω ($\pm 0.1\%$)
 Output Signal: 1~5V DC
 Output Resistance: 250 Ω
 Allowable Load Resistance: 200k Ω min.
 Power Supply for Transmitter: 24V DC $\pm 1V$
 Current Capacity: 22mA max.
 Output Ripple: 100mVp-p max.



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2CD-	Distributor (2-Wire Transmitter), Non-Isolation Type
POWER SUPPLY	82-	100~120V AC $\pm 10\%$, 50 / 60Hz
	83-	200~240V AC $\pm 10\%$, 50 / 60Hz
	99-	Others (Please consult before ordering.)
REMARKS	0	Without
	9	With (Please consult before ordering.)

CONVERTER

CP2CI SIGNAL ISOLATOR



Input Signal:	4~20mA DC
Receiving Resistance:	Voltage Output Type = approx. 250 Ω (at 20mA) Current Output Type = approx. 250 Ω + load resistance (at 20mA)
Output Span Adjustment Range:	±1% FS
Input / Output Nos.:	2 channels
Conversion Accuracy:	±0.2% (at 23°C)
Response Time:	500 msec. max. (0~90%)
Repeatability:	±0.1% FS

ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2CI-	Signal Isolator (Input & Output Isolator), Non-Power Supply Type 2CH
OUTPUT	5	1~5V DC / FS, Output Resistance: 50Ωmax, Allowable Load Resistance: 50kΩmin.
	6	4~20mA DC / FS, Load Resistance: 62~350Ω, Output Fluctuation vs Load Drift: 0.02% / 10Ω
REMARKS	0	Without
	9	With (Please consult before ordering.)

CP2CH TRACK-HOLD CONVERTER

Conversion Accuracy:	±0.3% of input range (at 23°C)
Response Time:	500 msec. max. (0~90%)
Repeatability:	±0.1% FS of input range
Conversion Output Adjustment Range:	±4% FS (ZERO and SPAN)



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2CH-	Track-Hold Converter
INPUT	1	0~10mV DC / FS, Input Resistance: 1MΩ
	2	0~100mV DC / FS, Input Resistance: 1MΩ
	3	0~1V DC / FS, Input Resistance: 1MΩ
	4	0~10V DC / FS, Input Resistance: 1MΩ
	5	1~5V DC / FS, Input Resistance: 1MΩ
	6	4~20mA DC / FS, Receiving Impedance: 62Ω
OUTPUT	9	Others (Please consult before ordering.)
	1	10~0mV DC / FS, Output Resistance: 5Ω
	2	100~0mV DC / FS, Output Resistance: 50Ω
	3	1~0V DC / FS, Max. Current: 2mA
	4	10~0V DC / FS, Max. Current: 2mA
	5	5~1V DC / FS, Max. Current: 2mA
POWER SUPPLY	6	20~4mA DC / FS, Load Resistance: 600Ωmax
	9	Others (Please consult before ordering.)
	02-	24V DC ±10%
	13-	100~110V AC ±10%, 50 / 60Hz
	14-	110~120V AC ±10%, 50 / 60Hz
REMARKS	15-	200~220V AC ±10%, 50 / 60Hz
	16-	220~240V AC ±10%, 50 / 60Hz
	99-	Others (Please consult before ordering.)
REMARKS	0	Without
	9	With (Please consult before ordering.)

CP2CR RATE LIMITER

Conversion Accuracy: $\pm 0.5\%$ of input range (at 23°C)
 Response Time Adjustment Range: 0.5~60 sec. (0~100%)
 Response Time Setting Method: By front trimmer
 Repeatability: 0.2%
 Conversion Output Adjustment Range: $\pm 4\%$ FS (ZERO and SPAN)



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS	
SERIES	CP2CR-	Rate Limiter	
INPUT	1	0~10mV DC / FS, Input Resistance: 1MΩ	
	2	0~100mV DC / FS, Input Resistance: 1MΩ	
	3	0~1V DC / FS, Input Resistance: 1MΩ	
	4	0~10V DC / FS, Input Resistance: 1MΩ	
	5	1~5V DC / FS, Input Resistance: 1MΩ	
	6	4~20mA DC / FS, Receiving Impedance: 62Ω	
	9	Others (Please consult before ordering.)	
	CONVERSION OUTPUT	1	0~10mV DC / FS, Output Resistance: 5Ω
		2	0~100mV DC / FS, Output Resistance: 50Ω
3		0~1V DC / FS, Max. Current: 2mA	
4		0~10V DC / FS, Max. Current: 2mA	
5		1~5V DC / FS, Max. Current: 2mA	
6		4~20mA DC / FS, Load Resistance: 600Ωmax	
9		Others (Please consult before ordering.)	
POWER SUPPLY		02-	24V DC $\pm 10\%$
		13-	100~110V AC $\pm 10\%$, 50 / 60Hz
	14-	110~120V AC $\pm 10\%$, 50 / 60Hz	
	15-	200~220V AC $\pm 10\%$, 50 / 60Hz	
	16-	220~240V AC $\pm 10\%$, 50 / 60Hz	
	99-	Others (Please consult before ordering.)	
REMARKS	0	Without	
	9	With (Please consult before ordering.)	

CP2CS DISTRIBUTOR

Input: 4~20mA DC
 Receiving Resistance: 62.5Ω
 Conversion Output: $\pm 0.3\%$ of input range (at 23°C)
 Conversion Output Adjustment Range: $\pm 4\%$ FS (ZERO and SPAN)
 Input / Output Isolation: Standard Feature
 Response Time: 200 msec. (0~90%)
 Repeatability: $\pm 0.1\%$ of input range
 Power Supply for Transmitter: Power Supply Voltage = 24V DC ± 1 V
 Current Capacity = 22mA max.



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2CS-	Distributor (2-Wire Transmitter), Isolation Type
CONVERSION OUTPUT	5	1~5V DC / FS, Max. Current: 2mA
	6	4~20mA DC / FS, Load Resistance: 600Ωmax.
	9	Others (Please consult before ordering.)
POWER SUPPLY	13-	100~110V AC $\pm 10\%$, 50 / 60Hz
	14-	110~120V AC $\pm 10\%$, 50 / 60Hz
	15-	200~220V AC $\pm 10\%$, 50 / 60Hz
	16-	220~240V AC $\pm 10\%$, 50 / 60Hz
	99-	Others (Please consult before ordering.)
REMARKS	0	Without
	9	With (Please consult before ordering.)

CONVERTER

CP2CX DOUBLER-INVERTER

Output Characteristic: X-characteristic
 Split Setting: DIRECT = 0~60% of input signal
 REVERSE = 40~100% of input signal
 Output Monitor Voltage: 0~100% / 0~1V (Load Resistance: 5kΩ min.)
 Conversion Accuracy: ±0.3% of input range (at 23°C)
 Response Time: 200 msec. max. (0~90%)
 Repeatability: 0.1% of input range



ORDERING INFORMATION

ITEMS	CODE		SPECIFICATIONS
SERIES	CP2CX-		Doubler-Inverter (X-Characteristic Converter)
INPUT		3	0~1V DC / FS, Input Resistance: 1MΩ
		4	0~10V DC / FS, Input Resistance: 1MΩ
		5	1~5V DC / FS, Input Resistance: 1MΩ
		6	4~20mA DC / FS, Input Resistance: 62Ω
		9	Others (Please consult before ordering.)
OUTPUT		3	0~1V & 1~0V DC / FS, Max. Current: 2mA
		4	0~10V & 10~0V DC / FS, Max. Current: 2mA
		5	1~5V & 5~1V DC / FS, Max. Current: 2mA
		6	4~20mA & 20~4mA DC / FS, Load Resistance: 600Ω max
		9	Others (Please consult before ordering.)
POWER SUPPLY		02-	24V DC ±10%
		13-	100~110V AC ±10%, 50 / 60Hz
		14-	110~120V AC ±10%, 50 / 60Hz
		15-	200~220V AC ±10%, 50 / 60Hz
		16-	220~240V AC ±10%, 50 / 60Hz
		99-	Others (Please consult before ordering.)
REMARKS		0	Without
		9	With (Please consult before ordering.)

CP2EA TWO-INPUT ADDER

Operation: Output = IN₁ + IN₂
 Conversion Accuracy: ±0.3% of input range (at 23°C)
 Response Time: 200 msec. max. (0~90%)
 Repeatability: 0.1% of input range
 Conversion Output Adjustment Range: ±4% FS (ZERO and SPAN)



ORDERING INFORMATION

ITEMS	CODE		SPECIFICATIONS
SERIES	CP2EA-		Two-Input Adder
INPUT		1	0~10mV DC / FS, Input Resistance: 1MΩ
		2	0~100mV DC / FS, Input Resistance: 1MΩ
		3	0~1V DC / FS, Input Resistance: 1MΩ
		4	0~10V DC / FS, Input Resistance: 1MΩ
		5	1~5V DC / FS, Input Resistance: 1MΩ
		6	4~20mA DC / FS, Receiving Resistance: 62Ω
		9	Others (Please consult before ordering.)
CONVERSION OUTPUT		1	0~10mV DC / FS, Output Resistance: 5Ω
		2	0~100mV DC / FS, Output Resistance: 50Ω
		3	0~1V DC / FS, Max. Current: 2mA
		4	0~10V DC / FS, Max. Current: 2mA
		5	1~5V DC / FS, Max. Current: 2mA
		6	4~20mA DC / FS, Load Resistance: 600Ω max
		9	Others (Please consult before ordering.)
POWER SUPPLY		02-	24V DC ±10%
		13-	100~110V AC ±10%, 50 / 60Hz
		14-	110~120V AC ±10%, 50 / 60Hz
		15-	200~220V AC ±10%, 50 / 60Hz
		16-	220~240V AC ±10%, 50 / 60Hz
		99-	Others (Please consult before ordering.)
REMARKS		0	Without
		9	With (Please consult before ordering.)

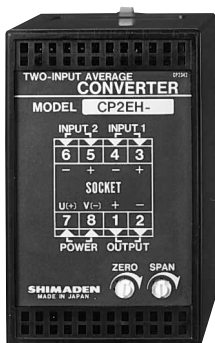
CP2EH TWO-INPUT AVERAGE CONVERTER

Operation: $Output = \frac{IN_1 + IN_2}{2}$

Conversion Accuracy: $\pm 0.3\%$ of input range (at 23°C)

Response Time: 200 msec. max (0~90%)

Repeatability: 0.1% of input range



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2EH-	Two-Input Average Converter
INPUT	1	0~10mV DC / FS, Input Resistance: 1MΩ
	2	0~100mV DC / FS, Input Resistance: 1MΩ
	3	0~1V DC / FS, Input Resistance: 1MΩ
	4	0~10V DC / FS, Input Resistance: 1MΩ
	5	1~5V DC / FS, Input Resistance: 1MΩ
	6	4~20mA DC / FS, Receiving Resistance: 62Ω
	9	Others (Please consult before ordering.)
CONVERSION OUTPUT	1	0~10mV DC / FS, Output Resistance: 5Ω
	2	0~100mV DC / FS, Output Resistance: 50Ω
	3	0~1V DC / FS, Max. Current: 2mA
	4	0~10V DC / FS, Max. Current: 2mA
	5	1~5V DC / FS, Max. Current: 2mA
	6	4~20mA DC / FS, Load Resistance: 600Ω max
	9	Others (Please consult before ordering.)
POWER SUPPLY	02-	24V DC $\pm 10\%$
	13-	100~110V AC $\pm 10\%$, 50 / 60Hz
	14-	110~120V AC $\pm 10\%$, 50 / 60Hz
	15-	200~220V AC $\pm 10\%$, 50 / 60Hz
	16-	220~240V AC $\pm 10\%$, 50 / 60Hz
	99-	Others (Please consult before ordering.)
REMARKS	0	Without
	9	With (Please consult before ordering.)

CP2ER SQUARE ROOT EXTRACTOR

Conversion Accuracy: $\pm 0.5\%$ of input range (at 23°C)

Response Time: 500 msec. max. (0~90%)

Repeatability: 0.2%

Conversion Output Adjustment Range: $\pm 4\%$ FS (ZERO and SPAN)



ORDERING INFORMATION

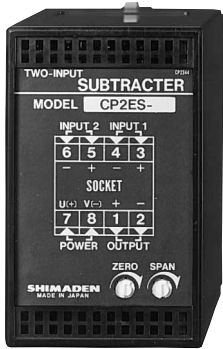
ITEMS	CODE	SPECIFICATIONS
SERIES	CP2ER-	Square Root Extractor
INPUT	1	0~10mV DC / FS, Input Resistance: 1MΩ
	2	0~100mV DC / FS, Input Resistance: 1MΩ
	3	0~1V DC / FS, Input Resistance: 1MΩ
	4	0~10V DC / FS, Input Resistance: 1MΩ
	5	1~5V DC / FS, Input Resistance: 1MΩ
	6	4~20mA DC / FS, Receiving Resistance: 62Ω
	9	Others (Please consult before ordering.)
CONVERSION OUTPUT	1	0~10mV DC / FS, Output Resistance: 5Ω
	2	0~100mV DC / FS, Output Resistance: 50Ω
	3	0~1V DC / FS, Max. Current: 2mA
	4	0~10V DC / FS, Max. Current: 2mA
	5	1~5V DC / FS, Max. Current: 2mA
	6	4~20mA DC / FS, Load Resistance: 600Ω max
	9	Others (Please consult before ordering.)
POWER SUPPLY	02-	24V DC $\pm 10\%$
	13-	100~110V AC $\pm 10\%$, 50 / 60Hz
	14-	110~120V AC $\pm 10\%$, 50 / 60Hz
	15-	200~220V AC $\pm 10\%$, 50 / 60Hz
	16-	220~240V AC $\pm 10\%$, 50 / 60Hz
	99-	Others (Please consult before ordering.)
REMARKS	0	Without
	9	With (Please consult before ordering.)

Operation: $I_o = \sqrt{I_i}$ I_o : Output Signal (%)
 I_i : Input Signal (%)
 * $I_i < 1$ (%) $I_o = 0$ (%)

CONVERTER

CP2ES TWO-INPUT SUBTRACTER

Conversion Accuracy: $\pm 0.3\%$ of input range (at 23°C)
 Response Time: 200 msec. max. (0~90%)
 Repeatability: 0.1% of input range
 Conversion Output Adjustment Range: $\pm 4\%$ FS (ZERO and SPAN)



ORDERING INFORMATION

ITEMS	CODE		SPECIFICATIONS
SERIES	CP2ES-		Two-Input Subtractor
INPUT		1	0~10mV DC / FS, Input Resistance: 1M Ω
		2	0~100mV DC / FS, Input Resistance: 1M Ω
		3	0~1V DC / FS, Input Resistance: 1M Ω
		4	0~10V DC / FS, Input Resistance: 1M Ω
		5	1~5V DC / FS, Input Resistance: 1M Ω
		6	4~20mA DC / FS, Receiving Resistance: 62 Ω
		9	Others (Please consult before ordering.)
CONVERSION OUTPUT		1	0~10mV DC / FS, Output Resistance: 5 Ω
		2	0~100mV DC / FS, Output Resistance: 50 Ω
		3	0~1V DC / FS, Max. Current: 2mA
		4	0~10V DC / FS, Max. Current: 2mA
		5	1~5V DC / FS, Max. Current: 2mA
		6	4~20mA DC / FS, Load Resistance: 600 Ω max
		9	Others (Please consult before ordering.)
POWER SUPPLY		02-	24V DC $\pm 10\%$
		13-	100~110V AC $\pm 10\%$, 50 / 60Hz
		14-	110~120V AC $\pm 10\%$, 50 / 60Hz
		15-	200~220V AC $\pm 10\%$, 50 / 60Hz
		16-	220~240V AC $\pm 10\%$, 50 / 60Hz
		99-	Others (Please consult before ordering.)
REMARKS		0	Without
		9	With (Please consult before ordering.)

CP2MP DC-FREQUENCY CONVERTER

Conversion Accuracy: $\pm 0.3\%$ of input range (at 23°C)
 Repeatability: $\pm 0.1\%$
 Conversion Output Adjustment Range: $\pm 4\%$ FS (ZERO and SPAN)
 Type of Output: Open collector signal output, 35V DC / 50mA max.
 Non-contact switch signal output, 120V AC / 0.2A max.
 Output Pulse: 1000~5000Hz / FS, 0.1 msec. 100~500Hz / FS, 1 msec. 10~50Hz / FS, 10 msec.
 Output Monitor: 0~1kHz outputs vs. 0~100% of input



CONVERSION OUTPUT RANGE CODES

RANGE	CODES
0~ 10Hz	701
0~ 20Hz	704
0~ 50Hz	711
0~ 100Hz	719
0~ 200Hz	726
0~ 500Hz	750
0~1000Hz	810
0~2000Hz	820
0~5000Hz	841

ORDERING INFORMATION

ITEMS	CODE		SPECIFICATIONS
SERIES	CP2MP-		DC-Frequency Converter
INPUT		1	0~10mV DC / FS, Input Resistance: 1M Ω
		2	0~100mV DC / FS, Input Resistance: 1M Ω
		3	0~1V DC / FS, Input Resistance: 1M Ω
		4	0~10V DC / FS, Input Resistance: 1M Ω
		5	1~5V DC / FS, Input Resistance: 1M Ω
		6	4~20mA DC / FS, Receiving Impedance: 62 Ω
		9	Others (Please consult before ordering.)
CONVERSION OUTPUT		1	Open Collector Signal: 35V DC / 50mA max.
		2	Non-Contact Switch Signal: 120V AC / DC, 0.2A max.
		9	Others (Please consult before ordering.)
POWER SUPPLY		02-	24V DC $\pm 10\%$
		13-	100~110V AC $\pm 10\%$, 50 / 60Hz
		14-	110~120V AC $\pm 10\%$, 50 / 60Hz
		15-	200~220V AC $\pm 10\%$, 50 / 60Hz
		16-	220~240V AC $\pm 10\%$, 50 / 60Hz
		99-	Others (Please consult before ordering.)
CONVERSION OUTPUT RANGE		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	See Measuring Output Range Codes.
LEGEND		Z	Hz
REMARKS		0	Without
		9	With (Please consult before ordering.)

CP2SR RATIO & BIAS SETTER

Ratio Setting Range: 0.3~3.0
 Bias Setting Range: -100~+100%
 Setting Accuracy: ±0.5% FS (vs. SV monitor output) / 23°C
 Operation Accuracy: ±0.5% FS (ratio = 1, bias = 0%) / 23°C
 Operation: $I_0 = nI_1$ I_0 : Output Signal (%) n : Ratio
 $I_0 = nI_1 \pm \alpha$ I_1 : Input Signal (%) α : Bias (%)
 Monitor Output Voltage: Ratio = 0.3~3 / 0.3~3V (Load Resistance: 5kΩ min.)
 Bias = -100~+100 / -1~+1V (Load Resistance: 5kΩ min.)
 Response Time: 200 msec. max. (0~90%)
 Repeatability: 0.1% of input range

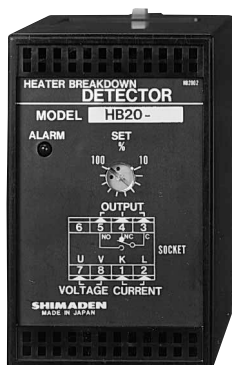


ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	CP2SR-	Ratio & Bias Setter
INPUT	3	0~1V DC / FS, Input Resistance: 1MΩ
	4	0~10V DC / FS, Input Resistance: 1MΩ
	5	1~5V DC / FS, Input Resistance: 1MΩ
	6	4~20mA DC / FS, Receiving Impedance: 62Ω
	9	Others (Please consult before ordering.)
OUTPUT	3	0~1V DC / FS, Max. Current: 2mA
	4	0~10V DC / FS, Max. Current: 2mA
	5	1~5V DC / FS, Max. Current: 2mA
	6	4~20mA DC / FS, Load Resistance: 600Ω max
	9	Others (Please consult before ordering.)
POWER SUPPLY	02-	24V DC ±10%
	13-	100~110V AC ±10%, 50 / 60Hz
	14-	110~120V AC ±10%, 50 / 60Hz
	15-	200~220V AC ±10%, 50 / 60Hz
	16-	220~240V AC ±10%, 50 / 60Hz
REMARKS	0	Without
	9	With (Please consult before ordering.)

HB20 HEATER BREAKDOWN DETECTOR

Operation Current: 0.5~5A
 Continuous Allowable Current: 7A AC
 Setting Range: 10~100% (0.5~5A)
 Sensitivity: 3% of current setting value
 Operation Time: 0.5 sec. max.
 Output / Contact Rating: Relay Contact / 240V AC, 2A / resistive load
 Alarm Action: Red LED is on when alarm is on.
 Insulation Resistance: 500V DC 100MΩ between power supply, current and output terminals
 Dielectric Strength: 1 min. at 1500V AC between power supply, current and output terminals



ORDERING INFORMATION

ITEMS	CODE	SPECIFICATIONS
SERIES	HB20-	Heater Breakdown Detector
CONTROL VOLTAGE	19-	100V AC ±10%, 50 / 60Hz
	20-	110V AC ±10%, 50 / 60Hz
	21-	120V AC ±10%, 50 / 60Hz
	22-	200V AC ±10%, 50 / 60Hz
	23-	220V AC ±10%, 50 / 60Hz
	25-	240V AC ±10%, 50 / 60Hz
	99-	Others (Please consult before ordering.)
REMARKS	0	Without
	9	With (Please consult before ordering.)

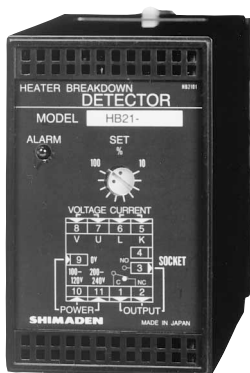
Note: This detector is exclusively for Single Phase and Zero Voltage Switching.

CONVERTER

HB21 HEATER BREAKDOWN DETECTOR

Operation Current:	0.5~5A AC (when input voltage is rated value)
Continuous Allowable Current:	7A AC
Setting Range:	10~100% (0.5~5A: when input voltage is rated value)
Sensitivity:	Approx. 3% of current setting value (when input voltage is rated value)
Operation time:	0.5 sec. Max. (in case of current changes from 150% to 0% of operating value)
Effect of fluctuation of input voltage:	±5% FS or less of theoretical value on operating current value with rated voltage (in a range from 20% to 110% of input voltage)
Input voltage (heater voltage):	100~120 / 200~240V AC ±10% 50 / 60 Hz (One of these to be selected)
Rated frequency:	50 / 60Hz
Alarm action output:	Relay contact (1C / SPDT)
Contact capacity:	240V AC 2A (Resistive load)
Alarm action display:	Red LED lamp is on during alarm action.
Power supply:	100~120 / 200~240V AC ±10% 50 / 60Hz
Operating ambient temperature / humidity:	-10 ~+50 °C / 90% RH maximum (no dew condensation allowed)
Insulation Resistance:	500V DC 100MΩ between power supply, current and output terminals
Dielectric Strength:	1 min. at 1500V AC between power supply, current and Output terminals
Material:	Molded from ABS resin
External dimensions:	180(H) × 50(W) × 130(D)mm
Mounting:	11plug-in panel or DIN rail
Weight:	Approx. 350g

ORDERING INFORMATION



ITEMS	CODE	SPECIFICATIONS
SERIES	HB21-	Heater Breakdown Detector
CONTROL VOLTAGE	19-	100V AC ±10%, 50 / 60Hz
	20-	110V AC ±10%, 50 / 60Hz
	21-	120V AC ±10%, 50 / 60Hz
	22-	200V AC ±10%, 50 / 60Hz
	23-	220V AC ±10%, 50 / 60Hz
	25-	240V AC ±10%, 50 / 60Hz
	99-	Others (Please consult before ordering.)
REMARKS	0	Without
	9	With (Please consult before ordering.)

Note 1: This detector is exclusively for Single Phase and Phase Angle.

Note 2: This apparatus is meant for single phase and is unusable for three phase.

When a heater with 5A or higher current is used, a CT (current transformer) should be attached externally.

EXTERNAL DIMENSIONS & TERMINAL ARRANGEMENT

