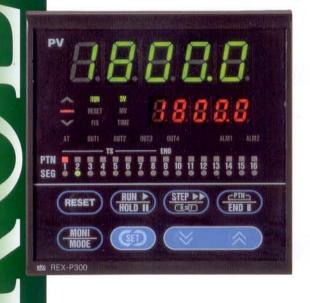
CERTROLLER

PROGRAM CONTROLLER REX-P300





Simple but High Performance!

REX-P300

Program Controller



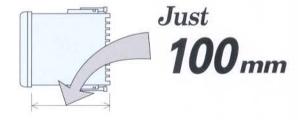
5-digit display

Even in high temperature surroundings, the temperature display with the resolution of 0.1°C is possible. The setting of scaling and decimal point can be done freely to the voltage and current inputs. Thus, this controller can be used in various kind of applications.

88888

Compact size with the depth of 100 mm was realized.

Compact size



±0.1% of Accuracy

High accuracy control in the high response process is realized by the accuracy of $\pm 0.1\%$ and the sampling cycle of 0.1 sec.

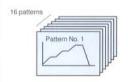
Simple operation

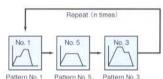
The key arrangement is easy for the operation and the description on each key is simple to confirm as the result of the pursuance for high performance and simple operation.

Main Functions

16 Segments · 16 Patterns

The maximum of 16 segments per pattern can be memorized, and the maximum of 16 patterns can be memorized. Further, each patterns can be linked together (Pattern link function). So, the setting of the pattern with more than 16 segments (256 segment maximum) is possible. The linking order of the pattern can be set freely.

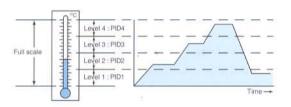




Pattern No. 1 Pattern No. 5 Patte

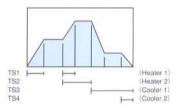
The full scale of input is divided into 4 levels and the PID constants can be set independently for each level. Thus, the simple and fine control is realized.

Level PID



Time Signal Output

The "Time Signal Output" is used for the ON/OFF of an auxiliary heater or cooler by setting the ON and OFF times according to the program progress. Maximum 16 settings per pattern are possible. Output is 4 or 8 points of open collector type. (When CVM-4 or CVM-3C is used, the output type is relay contact.)



Contact Input

The setting of RESET, RUN, STEP, HOLD and PATTERN No. can be done by the contact input to the rear terminal in addition to the setting on the front panel. The contact signal from outside (sequencer, switch, etc.) can be used for the automation of each manufacturing process and for the prevention of mis-operation.

* The contact input for pattern setting is optional.







3 Mode Control (Program, Fixed set point, Manual)

The following 3 types of control modes are available.

- Program Control Mode (16 patterns, 16 segments, Linking is possible)
 The control is carried out by changing the set value according to the pre-set program pattern.
- 2. Fixed Set Point Control Mode

The control is carried out based on a pre-set value. Can be used just like the conventional single loop controller.

3. Manual Mode

The controlled output value is pre-set, and by this output the control is

Abundant Additional Outputs (Option)

2 kinds of alarms can be selected from among process alarm (high, low), deviation alarm (high, low, high/low, band), set value alarm (high, low), and fail. In addition, apart from the alarm outputs, the maximum of 3 kinds (depends on combination with other optional functions) of outputs can be selected as option from among process alarm (high, low), set value alarm (high, low), pattern-end status signal, soak status signal, hold status signal, and run status signal.

Alarm output

Process high alarm Process low alarm Deviation high alarm Deviation high/low alarm Deviation high/low alarm Band alarm Set value high alarm Set value low alarm



Additional Output (Auxillary output)

Process high alarm
Process low alarm
Set value high alarm
Set value low alarm
Pattern-end status signal
Soak status signal
Hold status signal
Run status signal

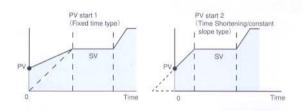
Communication Function, Analog Output (Option)

The communication function and analog output, which are indispensable for the process control and management, are available. The maximum 31 sets of REX-P300 can be managed by the communication function. Either of the process value (PV), set value (SV), manipulation value (MV), deviation value (DEV) or segment value (TIME) can be output as DC voltage or current.



PV Start

In case of a PV (Measured value) being at a certain level already when the control is started, the starting level of the program can be set to this PV. 2 types of PV Start are available. The one is PV start 1, in which the segment time is fixed. Another one is PV start 2, in which the segment slope is constant.



Other Functions

- ★ Universal input
- ★ PV bias / PV ratio
- ★ Input digital filter (Variable between 0 to 100 sec, "OFF" at 0 setting)
- * Square-root extractor (Only for voltage, current input)
- ★ Hold/Wait/Step
- * Pattern-end output time setting
- * Output limitter
- ★ Balanceless bumpless (At the switching of Manual ← → Auto)
- ★ Fuzzy function (At fixed set point control mode)

- ★ Position proportional control (No need of feed-back resistance)
- ★ Heat/cool control
- ★ Conforming to various kinds of international safety standard



Name of Each Part

PV display unit
(Measured value,
Characters display)

Temperature gradient indicating lamps

Control mode indicating lamps

Auto-tuning indicating lamp



SV indicator mode indicating lamps

SV display unit

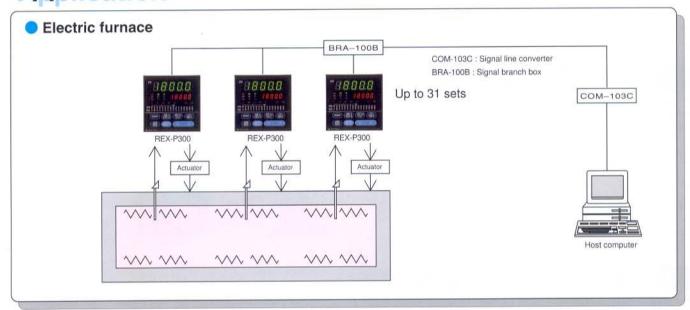
(Various setting value, Time)

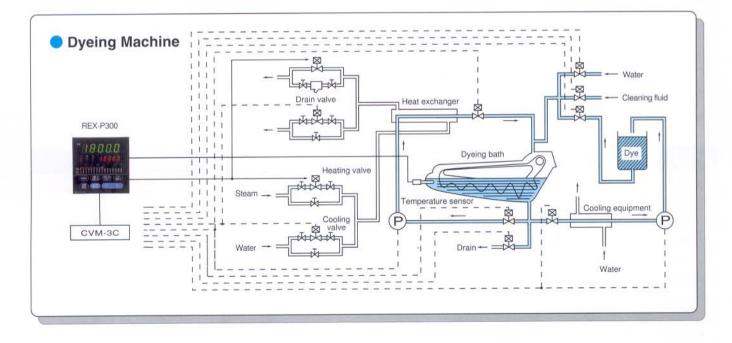
Output status indicating lamps

Pattern No., time signal output, pattern end indicating lamps

Segment No. indicating lamps

Application





Specifications

Measured input (Universal input) a) Thermocouple: K, J, R, S, B, E, T, N (JIS/IEC) (1) Input PLII(NBS), U, L (DIN) W5Re/W26Re(ASTM) Pt • 40%Rh-Pt • 20%Rh Pt100(JIS/IEC), JPt100(JIS) b) B T D c) DC low voltage input group : 0 to 10mV, 0 to 100mV, 0 to 1V, 0 to 5V 1 to 5V, -100 to 100 mV, -1 to 1V, -5 to 5V d) DC high voltage input group : 0 to 10V, -10 to 10V e) DC current input group : 0 to 20mA, 4 to 20mA Refer to Input, Range code. DC voltage / current type is with square-root extractor. 0.1 sec (2) Sampling time a) Thermocouple : More than $1M\Omega$ (3) Input impedance b) DC low voltage : More than $1M\Omega$ c) DC high voltage : Approx. $1M\Omega$ d) DC current : Approx 250 Ω 300 µA (RTD) (4) Sensor current Approx. $0.4 \,\mu \text{V/}\Omega$ (TC) Approx. less than $10 \,\Omega$ per wire (RTD) (5) Resistance effect on input signal : (6) Effect of input resistance : (7) Input break action : a) Thermocouple : Up scale or down scale (selectable) b) RTD : Up scale c) DC low voltage : Down scale d) DC high voltage: Indicate a value around zero e) DC current : Down scale (8) Allowable input voltage Less than \pm 7V (DC high voltage : Less than \pm 14V (9) PV bias a) Temperature input : -10.0 to 10.0°C (°F b) DC voltage, DC current : -10.0 to 10.0% of span 0.001 to 9.999 2. Performance (1) Measuring accuracy : a) Thermocouple (0.1% of reading or 1℃[*F] whichever is larger) ±1 digit * Type Pt • 40%Rh-Pt • 20%Rh : (0.1% of reading or 10 µV whichever is larger)±1 digit * Accuracy is not guaranteed between 0 to 400°C (0 to 752°F) for type B, Pt • 40%Rh-Pt • 20%Rh and 0 to 32°F for N, PLII W5Re/W26Re. * For a thermocouple input, please be minded about cold junction compensation error. b) RTD (0.1% of reading or 0.5°C['F] whichever is larger) ±1 digit c) DC voltage, DC current (0.1% of span) ±1 digit Within ±0.5°C (Between 0 to 50°C [32 to 122°F]) (2) Cold junction compensation error: (As far as the measured value is above -100°C. Below -100°C, out of guarantee.) ±0.01% of displayed value (3) Time accuracy More than $20M\Omega$ (500V DC) between input and ground (4) Insulation resistance : More than 20M Ω (500V DC) between power and ground (5) Dielectric strength: 1000V AC for one minute between input and ground 1500V AC for one minute between power and ground 3. Program (1) Storage program patterns : Max. 16 patterns. (Max. 16 segments per pattern.) Storage segments: Max. 256 segments. (16 segments × 16 patterns.) (Possible linkage : Max.16 patterns) 00 hr 00 min to 99 hrs 59 min or (2) Segment time 00 min 00 sec to 99 min 59 sec (Selectable by front key) (3) Program repeat : 1 to 1000 times or continuous. If 1000 is set, the program is carried out endlessly. -10.0 to 10.0°C(°F) (Individual setting up and down side) 4. Control (1) Control method: a) PID action with autotuning · Direct/Reverse action (Selectable) · ON-OFF, P, PI, PD action are available b) Heat/Cool PID action with autotuning c) Position proportioning action without feedback resistance (2) Setting range: a) Proportional band: Temperature input: 0.1 to span(°C/°F) DC voltage, current input : 0.1 to 1000.0% of span (ON/OFF action when 0 is set. Differential gap ±1°C["F])) b) Integral time: 1 to 3600 sec (PD action when 0 is set .) c) Derivetive time : 1 to 3600 sec (PI action when 0 is set.) d) Proportional cycle: 1 to 100 sec e) Output limier : -5.0 to 105.0% (Possible to set high and low output) f) Anti-reset-windup: 1 to 100% of proportional band 4 groups (Level PID) (3) PID value storage : a) Relay contact output : 250V AC 3A (Resistive load) (4) Output

b) Voltage pulse output : 0/12V DC

(Load resistance : More than 800 Ω)

(Load resistance : Less than 600 Ω)

(Load resistance : More than 1kΩ)

c) Current output : 0 to 20mA, 4 to 20mA DC

d) Continuous voltage output: 0 to 5V, 0 to 10V, 1 to 5V DC

5. External Con	a) Standard function
(1) Type	Reset, Run, Hold, Step b) Optional function
(2) Input rating	Pattern No. set Non voltage contact input
(2) Input rating	a) OPEN : 500kΩ or more b) CLOSE : 10Ω or less
6. Pattern End C	Control of the Contro
(1) Setting time	: 00 min 00 sec to 99 min 59 sec
	 When pattern end output set 0 min 00 sec, keep on output until the power is OFF or reset.
(2) Output	Copen collector output A) Rating : Max. 24V DC 50mA D) ON voltage : Max. 2V
7. Time Signal C	
(1) Number of output	
(2) Storage pattern	
(3) Output	: Open collector output
	a) Rating : Max. 24V DC 50mA
8. Alarm output	b) ON voltage : Max. 2V
Anyton market and the second second	2 polists
(1) Number of alarm (2) Alarm types	2 points Programmable
And a significant Albana	Deviation alarm (High limit, Low limit, High/low limit, Band)
	Process alarm (High limit, Low limit)
	Set value alarm (High limit, Low limit) FAIL
	 Hold function can be programmed. Energized/de-energized alarm
	(Selectable but FAIL alarm is only de-energized alarm)
(3) Differential gap	: 0.0 to 10.0°C [°F] (Temperature)
(4) Alasa data	0.0 to 10.0% of span (Voltage/Current)
(4) Alarm delay (5) Output	0 to 600 sec. Relay contact output, 250V AC 0.5A (Resistive load)
9. Auxiliary out	
(1) Number of output	: Max. 3 points
(2) Output types	control (released soon) is specified, 1 point (OUT2) is used for the control output. Thus the points available for use decrease * When the analog output is specified which uses 1 point (OUT4), the available points decreases. Programmable optional types for each output types Process alarm (High limit, Low limit), Set value alarm (High limit, Low limit),
	Pattern end status signal, Soak status signal, Hold status
(3) Output	signal, RUN status signal Relay contact output, 250V AC 0.5A (Resistive load)
10. Analog outp	
(1) Number of output	
(2) Output signal	: 0 to 10mV, 0 to 100mV DC
	(Load resistance: More than 20kΩ)
	0 to 1V, 0 to 5V, 0 to 10V, 1 to 5V DC (Load resistance : More than 1kΩ)
	0 to 20mA, 4 to 20mA DC
	(Load resistance : Less than 600Ω)
(3) Output types	 Programmable optional type for each output types Measured value (PV), Set value (SV), Deviation value (DEV) Manipulated value (MV), Segment time (TIME)
	(Outputs the segment time in percentage.)
(4) Output scaling	: High limit and low limit are available.
	 Manipulated value (MV) and segment time (TIME) are not scaling.
	Scaling range is -19999 to 32000 digit.
(5) Output accuracy	: 0.1% of span
(6) Output resolution	THE COURT OF THE PARTY OF THE P
The state of the s	nunication (Option)
(1) Communication method	
(2) Synchronous method(3) Communication speed	
(4) Bit configuration	
50 0	Parity bit: "with" or "without", even or odd in case of "with" par
(E) May 0000001!	Stop bit : 1 or 2
(5) Max. connection	
12 Ganoral Spe	GIII GALIOTIS
12. General Spe	On to 264V AC including news values flustration
(1) Power supply voltage	: 90 to 264V AC including power voltage fluctuation (100 to 240V AC rating) 50/60 Hz selectable by front key : Less than 17 VA (at 240V AC)
(1) Power supply voltage (2) Power consumption (3) Momentary power failure	(100 to 240V AC rating) 50/60 Hz selectable by front key Less than 17 VA (at 240V AC) Not affected by power failure shorter than 50 msec.
12. General Spe (1) Power supply voltage (2) Power consumption (3) Momentary power failure (4) Memory backup (5) Ambient temperature	(100 to 240V AC rating) 50/60 Hz selectable by front key Less than 17 VA (at 240V AC) Not affected by power failure shorter than 50 msec. EEP-ROM and Non-volatile RAM(Approx. 10 years)

(5) Ambient temperature : 5 to 40°C (41 to 104°F)
(6) Ambient humidity : 20 to 80% RH
(7) Net weight : Approx. 500g
(8) External dimensions : 96×96×100 mm (H×W×D)

(9) Environment : Should be free from corrosive and flammable gas and dust. (10) Other conditions : Free from external noise, vibration, shock and exposure to direct sunlight.

13. Optional approvals (please specify if required)

(1) UL compatible model

(2) CSA compatible model

(3) CE marked model

Accessories

4 Points Time Signal Output Converter CVM-4 (Sold separately)

CVM-4 converters the 4 points of time signal output from REX-P300 and also converts the open collector output of pattern end to the contact output.

Specifications

Input : Open collector output from REX-P300

Output : Time signal output 4 points Relay contact output 250V AC 2A (Resistive load)

Pattern end output 1 point

Relay contact output 250V AC 2A (Resistive load) Ambient temperature : 0 to 50°C (32 to122°F)

Ambient humidity: 45 to 85% RH

Power supply voltage : 100/110V AC, 120V AC, 200/220V AC, 240V AC Specify either (50/60 Hz, Common use)

Power supply voltage variation : Within ±10% of rating

Power consumption: Less than 6 VA

Insulation resistance : More than 20M Ω (500V DC) between input and

ground More than $20M\Omega$ (500V DC) between power

Dielectric strength: 1000V AC for one minute between input and ground
1500V AC for one minute between power and ground

Net weight : Less than 1.5 kg

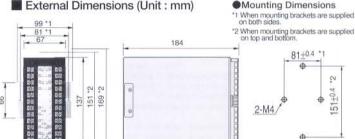
External dimension: Refer to the figure above right

Model Code

Specifications	Code		
Specifications	CVM-4	-2	
Pattern end output	With pattern end output	2	10
	100/110V AC		1
	120V AC		2
Power supply	200/220V AC		3
voltage	240V AC		4
	Others		9

^{*} REX-P300 connection cable is to be prepared by customers. (MAX. 2m)

External Dimensions (Unit : mm)



Rear Terminals

No.	Description		
1	⊋G		Earth
2		200/220V	Davies aveats
3		or 100/110V	Power supply
4			
5		END	
6			
7		TS 1	Input
8		TS 2	(Open
9		TS 3	collector)
10		TS 4	
11		COM	
12			

No.	Description		
13	END NO	Pattern end output	
14	END INO	(Relay contact)	
15			
16			
17	TS1 NO		
18	151 ,110		
19	T00 11110	Time signal	
20	TS2 NO	output	
21		(Relay contact)	
22	TS3 NO	117	
23			
24	TS4 NO		

ÇV.

10.4

5

8 Points Time Signal Output Converter CVM-3C (Sold separately)

CVM-3C converters the 8 points of time signal output from REX-P300 and also converts the open collector output of pattern end to the contact output.

Specifications

Input : Open collector output from REX-P300 Output : Time signal output 8 points

Relay contact output 250V AC 3A (Resistive load)

Pattern end output 1 points Relay contact output 250V AC 2A (Resistive load)

Ambient temperature : 0 to 50°C (32 to 122°F)

Ambient temperature : 0 to 50 G/Sz to 1207 Ambient humidity : 45 to 85% RH Power supply voltage : 100/110V AC and 200/220V AC, 120V AC and 240V AC Specify either (50/60 Hz

common use)

Power supply voltage variation : Within $\pm 10\%$ of rating Power consumption : Less than 8 VA

Insulation resistance : More than $20M\Omega$ (500V DC) between input and ground

More than 20MΩ (500V DC) between power and ground Dielectric strength: 1000V AC for one minute between input and ground 1500V AC for one minute between power and ground

Net weight: Less than 1.6 kg

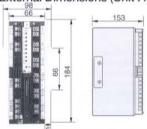
External dimension: Refer to the figure above right

Model Code

Specifications	Code	
Specifications	CVM-3C	-0
Power supply voltage	100/110V AC and 200/220V AC 120V AC and 240V AC	1
	Others	9

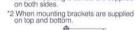
^{*} REX-P300 connection cable (RKC's twist cable) is sold separately. Model code : W-AT-01-3000

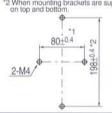
External Dimensions (Unit : mm) 66



No.	Descriptio	Description	
1	NO T		
2	C TS7	Time signal	
3	NC _	output	
4	NO T	(Relay contact)	
5	C TS8	(nelay contact)	
6	NC_f		
7			
8			
9	NO TENE	Pattern end	
10	CEND	(Relay contact)	
11		1	
12			
13	200/220V AC		
14	100/110V AC	Power supply	
15	0V *		
16	G	Earth	

Mounting Dimensions When mounting brackets are supplied on both sides.





Description

140.	Description	
17	NO ¬	
18	C TS1	
19	NC 🍱	
20	NO	
21	C TS2	
22	NC _f	
23	NO-7	Time signal
24	C TS3	output
25	NC_1	(Relay contact
26	NO-	output)
27	C TS4	er a contraction
28	NC_1	
29	NO	
30	C TS5	
31	NC_	
32	NO ¬	
33	C TS6	
34	NC_	

Pattern No. Selector SP-1-16 (Sold separately)

SP-1-16Y is the pattern number selector.

Specifications

Setting: Digital switch (2-button type), Push switch (Non-lock type)

Setting range : 1 to 16. Performance : Contact resistance : Less than $200\,\Omega$

Ambient temperature: -10 to 50°C (14 to 122°F) No dew condensation

Ambient humidity: 45 to 85% RH

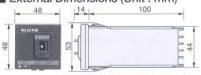
Net weight : Approx. 110g External dimension : 48 \times 48 \times 100 mm (H \times W \times D)

Model Code

SP-1-16Y (Pattern setting button provided) SP-1-16N (Pattern setting button not provided)

External Dimensions (Unit : mm)

@ 240V AC and 120V AC are available



(Panel thickness : 1 to 2 3

Rear Terminals

icai reiminais	No
	6
	- 1
	2
	3
T NI2 AIN I	4
	100

No.	Description	
6	P SET_	
1	COM	output
2	1	
3	2	Binary contact
4	- 4	Signal
5	8	

No

Panel Cutout



No. Description 8 9

Note Use solder less terminal lugs smaller than 6.2 mm.

Model Code

	Specification	dModel Coe
Туре	96×96 mm size Program Controller	REX-P300
	PID Action with Autotuning	
Control Action	Heat / Cool PID Action with Autotuning (Released soon)	w
	Position Proportioning Action Without Feed Back Resistance Input (Released soon)	z
nput Type	Refer to Input Range Code	
nput Range	Refer to Input Range Code	
	Relay Contact	M
Control Output (Heating)	Voltage Pulse	V
(Heating)	DC Voltage/Current (Code number 4 to 8: Specify signal code)	
	None (When control action is F type)	N
Control Output	Relay Contact	M
Control Output (Cooling)	Voltage Pulse	V
	DC Voltage/Current (Code No. 4to 8: Specify signal code)*1	
Power Supply	24V AC/DC (Released soon)	3
1121 2	100 to 240V AC	4
Alarm	Dual Alarm	D
Pattern Set	None	N
Contact Input	Supplied	
Time Signal Output	4 points Time Signal Output	4
Output	8 points Time Signal Output	8
Auxiliary Output	None	N
Auxiliary Output	Supplied *2	S
Analog Output	None	N
Analog Output	Analog output 1 point (Code No. 1 to 8 : Specify signal code)	
	None	N
Dieltel	RS-232C	
Digital Communication	RS-422A	4
	RS-485	5

^{*1 :} Analog output cannot be selected when the cooling side output is continuous voltage / current output in heat / cool PID with autotuning.

^{*2 :} The output number of auxiliary output is 3 points. But this number differs in the following specifications.

Specifications	Number of points
PID action with autotuning and with analog output	2 points
Heat / Cool PID action with autotuning	2 points
Heat / Cool PID action with autotuning and with analog output	1 point
Position Proportioning Action without Feed Back Resistance Input	2 points
Position Proportioning Action without Feed Back Resistance Input and with analog output	1 point

Code

5

8

Input Range Code

Thermocouple

Input	Co	de	Range
14	K	35	-200.0 to 400.0°C
K	K	23	0.0 to 1300.0°C
	K	A4	0.0 to 800.0°F
	K	B4	0.0 to 2400°F
	J	27	-200.0 to 400.0°C
J	J	16	0.0 to 1200.0°C
	J	B6	0.0 to 800.0°F
	J	B5	0.0 to 2100.0°F
R	R	05	0.0 to 1700.0°C
	R	A5	0.0 to 3200.0°F
S	S	04	0.0 to 1700.0°C
	S	A5	0.0 to 3200.0°F
В	В	04	0.0 to 1800.0°C
	В	A9	0.0 to 3200.0°F
_	Е	17	-200.0 to 200.0°C
E	E	08	0.0 to 1000.0°C
	E	A6	0.0 to 1800.0°F
N	N	05	0.0 to 1300.0°C

Input	Code		Range		
N	Ν	A4	0.0 to 2300.0°F		
- 14	T	13	-200.0 to 200.0°C		
T	Т	19	-200.0 to 400.0°C		
	Т	06	0.0 to 400.0°C		
	Т	B7	-300.0 to 700.0°F		
	Т	A7	0.0 to 700.0°F		
W5Re/W26Re	W	06	0.0 to 1200.0°C		
	W	04	0.0 to 2300.0°C		
	W	A6	0.0 to 2200.0°F		
	W	A8	0.0 to 4200.0°F		
PLII	Α	05	0.0 to 1300.0°C		
	Α	A5	0.0 to 2300.0°F		
U	U	04	0.0 to 600.0°C		
	U	B1	0.0 to 1100.0°F		
L	L	04	0.0 to 900.0°C		
	L	A6	0.0 to 1600.0°F		
PR20-40	F	01	0.0 to 1800.0°C		
	F	A1	0.0 to 3200.0°F		

Type

0 to 10V DC 1 to 5V DC 0 to 20mA DC

4 to 20mA DC

Signal Code

Code	Type		
1	0 to 10mV DC		
2	0 to 100mV DC		
3	0 to 1V DC		
4	0 to 5V DC		

4	0 to 5V DC				
Specify code 4 to	s 8 for heat or cool output.				

RTD

Input	Code		Range		
Diston	D	21	-200.0 to 200.0°C		
Pt100	D	25	-200.0 to 600.0°C		
	D	B8	-300.0 to 1200.0°F		
JPt100	Р	21	-200.0 to 200.0°C		
	Р	26	-200.0 to 600.0°C		

Voltage / Current DC

1	npu	t	Co	de	Range
0	to	10 mV	1	01	
0	to	100 mV	2	01	Scale range is programmable in the range of -1999 to 32000 digits (Default: 0.0 to 100.0)
-100	to	100 mV	9	01	
0	to	1 V	3	01	
-1	to	1 V	9	02	
0	to	5 V	4	01	
-5	to	5 V	9	03	
1	to	5 V	6	01	
0	to	10 V	5	01	
-10	to	10 V	9	04	
0	to	20 mA	7	01	
4	to	20 mA	8	01	

^{*} Sub output is 3 points except above specification.

^{*} Type B, PR20-40 inputs : Accuracy is not guaranteed between 0 to 400°C (0 to 752°F)

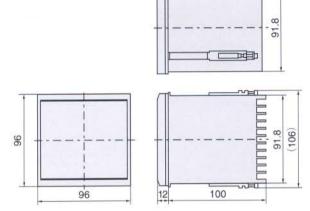
^{*} Type N, PLII, W5Re/W26Re inputs : Accuracy is not guaranteed between 0 to 32°F.

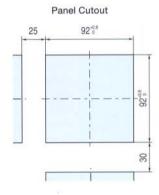
External Dimensions, Rear Terminals

Rear terminals

33 22 12 23 | 13 35 24 14 36 | 25 | 15 37 26 16 5 6 38 27 17 7 39 28 18 40 29 19 8 41 30 20 9 42 31 21 10 11 43 32 A

External Dimensions (Unit: mm)





Terminal Configuration

No.		Descrip	tion
1 2	AC 100-240	AC/DC + V 24V	Power supply
3	Relay	V, mA DC	
4	NO.	— 1+	Control
5	-NC		output
6		сом	1.00
7	0-	TS1	Time signal,
8	0-	TS2	Pattern end
9	0-	TS3	output
10	0	TS4	(Open collector)
11		END	

No.		otion	
33.	-	СОМ	Time
34	0-	TS5	signal
35	-0 0-	TS6	STANGE STANGE
36		TS7	(Open collector)
37	-0 0-	TS8	
38	NOIS	OUTO	
39	NOT	OUT2	
40		45000000	Auxiliary output
41	NOIS	оитз	or analog
42	OUT4	AO +	output
43	NOIS		

No.		D	tion	
22	RS-422A	RS-485	RS-232C	
22	SG —	SG —	SG	
23	T(A)	T/R(A)-	SD-	Digital
24	T(B) -	T/R(B)	RD.	communi- cation
25	R(A)			Callon
26	R(B)			
27	-	7 00	М	
28	0	PTI	¥.1	
29	-0 0-	PTI	1.2	Contact input
30	0	PTI	٧.4	Pattern set
31	0-	PTI	٧.8	
32	⊸ ∘	J P.S	ET	

No.	Description				
12	ALM1		Alarm output		
13	NÔ ALM2		(Relay		
14	NO		contact)		
15	DI	сом			
16		RESET	Contact input RESET		
17	0	RUN	RUN STEP		
18	0	STEP	HOLD		
19	0-	HOLD			
20	TC R	TD mV, V, mA DC			
	Α-	→			
21	+ 8	} _ ⁺	Input		
Α	TC B-	نــ الا			



- Before operating this product, read the instruction manual carefully to avoid incorrect operation.
 This product is intended for use with industrial machines, test and measuring equipment. It is not designed for use with medial equipment.
- If it is possible that an accident may occur as a result of the failure of the product or some other abnormality, an appropriate
- independent protection device must be installed.

 When installing this product, avoid the following:

 Direct exposure to sunlight.

- # The ambient temperature is lower than 0°C degrees or higher than 50°C \$\pi\$ In areas subject to high humidity. Ambient humidity should not be lower than 45% or higher than 85%RH.
 \$\pi\$ Direct Contact with water,
 \$\pi\$ Corrosive environments.
- # Hazardous areas containing explosive or flammable gases.
- Vibration or shock.
 Areas subject to electrical noise caused by inductive interference, static electricity or magnetic fields.



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Due to continuous product improvement, product specifications are subject to change without prior notice