P961 Ramp & Soak Temperature / Process Controller

The CAHO P961 represents a remarkable blend of advanced capabilities and budget-friendly affordability. Designed to exceed expectations, this controller redefines value by incorporating an array of features typically reserved for higher-priced counterparts.

Equipped with sophisticated ramp and soak functionalities, the P961 empowers users with precise temperature control over time. Whether you're managing industrial processes, laboratory experiments, or any application demanding meticulous thermal management, this controller rises to the occasion, ensuring your temperature profiles are executed flawlessly.

The true essence of the CAHO P961 lies in its ability to democratize advanced control technology. Despite its comprehensive capabilities, the controller remains exceptionally user-friendly. With an intuitive interface and straightforward navigation, even those new to temperature regulation systems can swiftly master its operation.

Gone are the days when sophisticated controllers were synonymous with exorbitant costs. The CAHO P961 challenges this norm, enabling access to premium features at an economical price point. This means that regardless of the scale of your endeavour, you can harness the precision and versatility of a high-end controller without straining your budget.
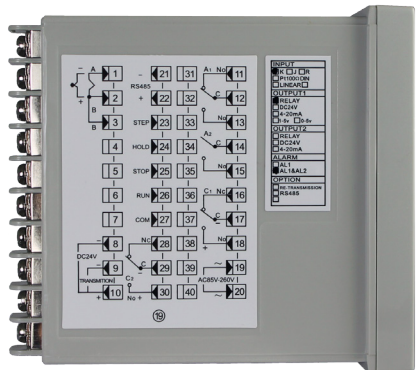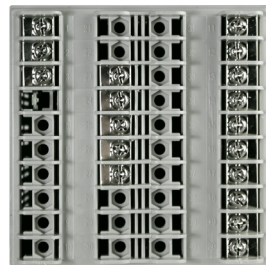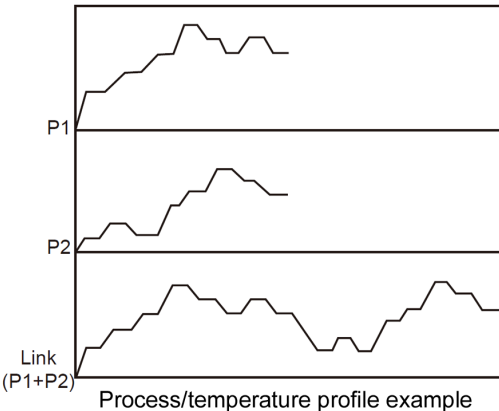
- 2 Patterns of 8 steps & 8 soaks each. (Linkable to 1 Pattern of 16 steps)
- 6 PID Zones & Auto-tuning
- Digital Inputs for external control (Run, stop, advance etc…)
- 2 Alarms with 22 modes
- Pattern Status Indication
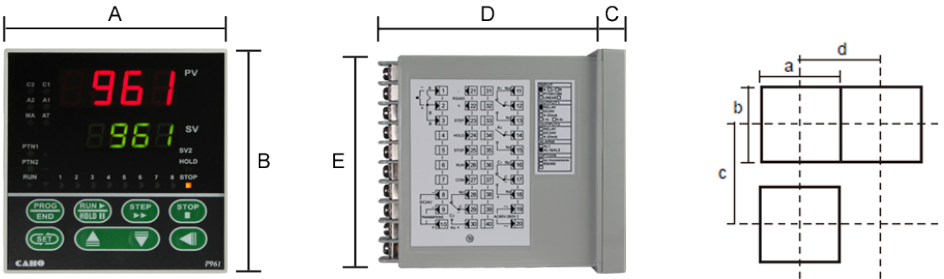- Available with Master/Slave & Modbus RTU (optional)

Input	K, J, R, S, N, T, E, B, Pt, DC linear...
Outputs	RELAY (250V/5A), DC24V (SSR), DC linear (4-20mA)
Control	PID, ON/OFF
Alarms	Two relay alarms, each has 22 alarm modes
Patterns	2 Programs of 8 setpoints & 8 soak points *
Accuracy	±0.3% full Scale
Op. Temperature	-10~55°C, below 90% humidity
Auto Tuning	6 point configurable Auto Tuning
Supply Voltage	AC 85V~260V, 50/60HZ

* The 2 programs can be linked into a single program of 16 setpoints & 16 soak points

Supplied with 2 mounting brackets

P1

P2

Link
(P1+P2)

Process/temperature profile example

Output 2
Output 1
Alarm 1
PV

C2 C1
A2 A1
MA AT

Alarm 2
Manual
Auto-tuning

PTN1
PTN2
RUN

Pattern 1
Pattern 2
Run
Run/Hold
Pattern

PV
SV
SV
SV2
HOLD — Hold
1 2 3 4 5 6 7 8 STOP — Stop

PROG END | RUN► HOLD II | STEP ►► | STOP ■

Mode/Set
SET

Stop
Pass
Shift Key

Up Key/Parameter Back Key   Down Key

CAHO   P961
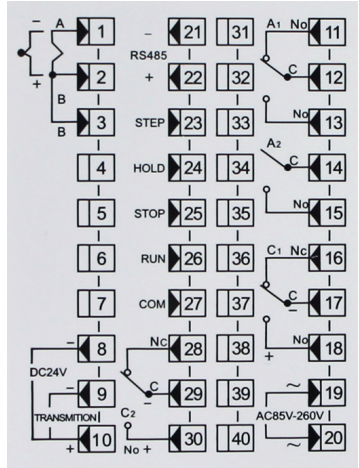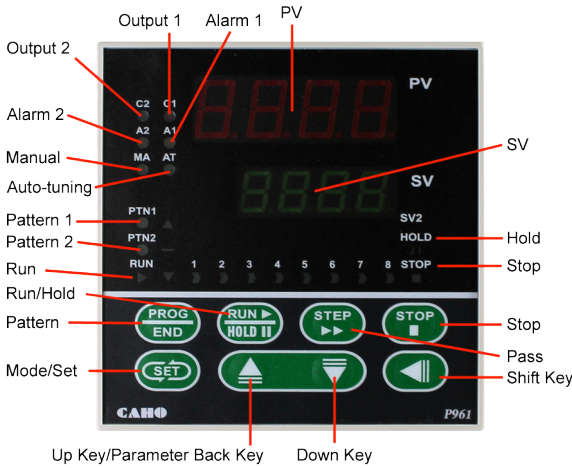
Panel Cutout   (unit: mm)

Model	A	B	C	D	E	a	b	c	d
P961	96	96	12	92	91	92 +/- 0.5	92 +/- 0.5	120	110

1	model	code
	Ramp and Soak Temperature/Process Controller (96mm x 96mm)	P961

2	input		code		input		code
	Type K	0°C to +1300°C	K		Type B	0°C to +1800°C	B
	Type J	0°C to +1000°C	J		Type N	0°C to +1300°C	N
	Type R	0°C to +1720°C	R		Type C	0°C to +1800°C	C
	Type S	0°C to +1720°C	S		4~20mA	-1999~9999	I
	PT100 (DIN)	-199°C to +850°C	P		0~20mA	-1999~9999	2
	PT (DIN)	-199°C to +600°C	Q		0~5V	-1999~9999	3
	Type T	-199°C to +400°C	T		1~5V	-1999~9999	4
	Type E	0°C to +850°C	E		0~10V	-1999~9999	5

3	output 1	code
	RELAY	R
	DC 24V	V
	4-20mA	I
	0-20mA	2
	0-5V	3
	1-5V	4
	0-10V	T

4	output 2	code
	Not fitted	0
	RELAY	R
	DC 24V	V
	4-20mA	I

5	alarm	code
	AL 1 & AL 2	2

6	option	code
	None	0
	Re-Transmission	T
	RS485	R
	Master	G
	Pupil	P
	Re-Transmission + RS485	1
	DC 24V	7

order code (example)	P961KR020