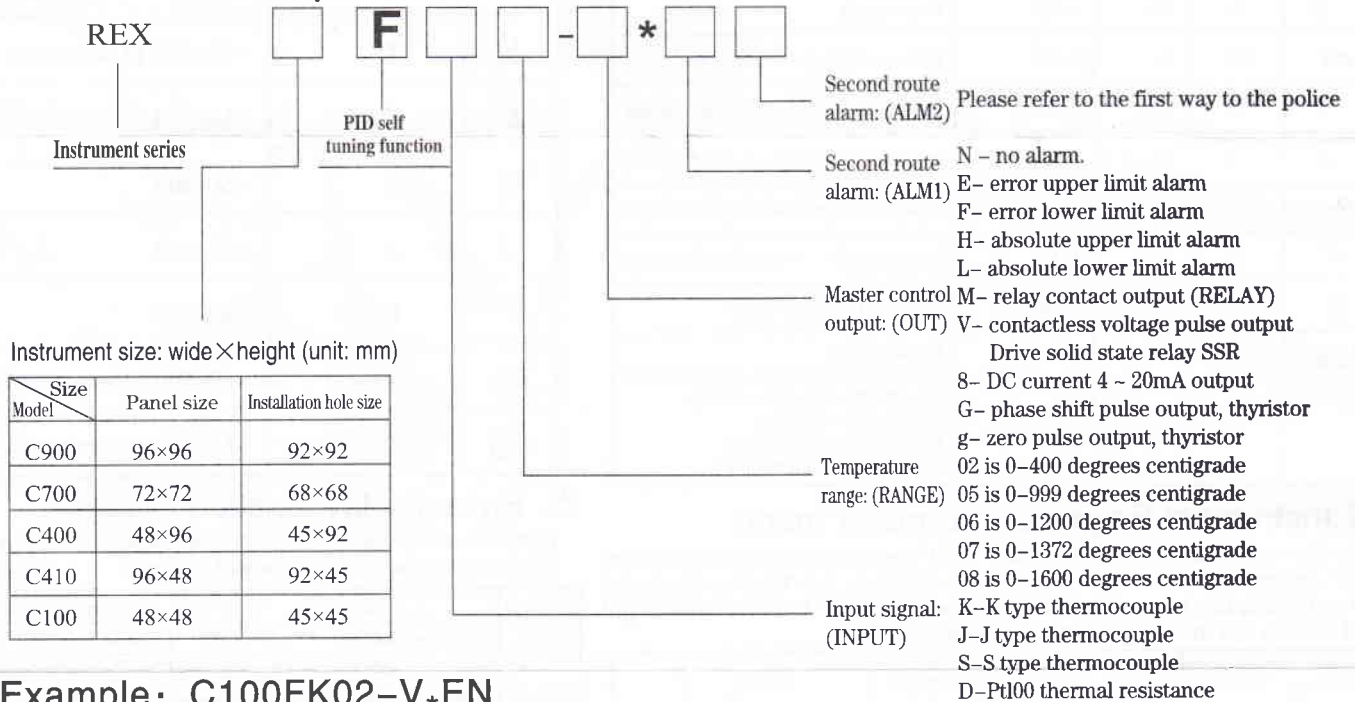


# REX—C900.C700.C400.C100.C10

## User manual

First of all, thank you for using our company's products. This series of products is based on the most advanced modern control theory, microcomputers controlled by microcomputers and a smart temperature control instrument with PID self tuning (automatic optimization) function. Please read the instructions in detail before use.

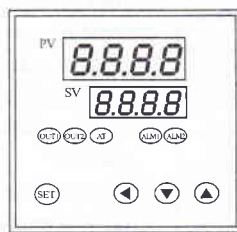
### 一、 Model description



### Example: C100FK02-V\*EN

The instrument should be: the size of the panel is 48 X 48; it has PID self setting function; with K thermocouple; temperature range of 0-400 C; contactless voltage pulse output (driving solid state relay SSR); the first alarm for the upper limit of deviation alarm; no second road alarm.

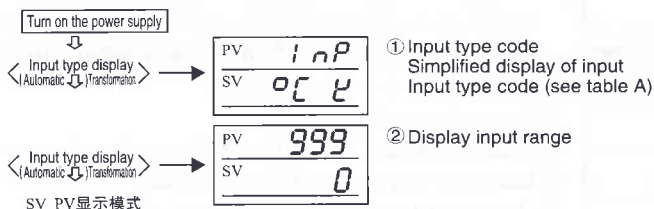
### 二、 Panel name and its functions



NO	Panel description	Content description
1	PV	Measured value / pattern display value
2	SV	Set value / mode content display value
3	OUT1	Output 1 indicator lamp
4	OUT2	Output 2 indicator lamp
5	AT	PID automatic indicator lamp
6	ALM1	Alarm 1 indicator lamp
7	ALM2	Alarm 2 indicator lamp
8	▲	Add keys
9	▼	Reducing key
10	◀	Displacement key
11	SET	Setting, pattern key

### 三、 Operation process

#### 3.1 Opening process



#### 3.2 SV setting mode

In the normal display state of SV/PV, press the "SET" key, make SV display in the flicker state, by pressing the "<" key, find the number of required temperature, and then press the rise or drop key, set to the required temperature value, after setting, again press a "SET" key, so that the instrument to SV/PV normal display state.

#### 3.3 Parameter setting mode

This parameter is used to set alarm, PID constant and other parameters. In the normal display state, after holding the "SET" key for three seconds, the parameter setting state is displayed in the PV display, the corresponding value is displayed in the SV display, and the lower table parameter symbol is displayed in turn according to the "SET" key.

Note: This machine has an automatic response function. The instrument automatically returns to the main display mode after 30 seconds when the operator forgets to return to the main display mode by setting parameters and modifying operations. Read the following contents before using or modifying parameters. The contents of the following processes, such as meters without this function, will not display this content.

## 四. Main menu

After the instrument is energized, press the SET key for about 2 seconds to enter the main menu.

Display character	Parameters	Default value	Adjustable range	Explain
SV	SV	100	SLL-SLH	Set value
AL1	AL1	10	SLL-SLH	Alarm value (AC1 = 0 does not display)
ATU	AT	0	0-1	Self tuning 0- closes 1- open
P	P	30	0-999	Proportions
OH	OH	2	1-100	Main control return (P = 0)
I	I	120	0-999	The integral term (P = 0 does not display)
D	D	30	0-999	The differential term (P = 0 does not display)
Ar	Ar	80	0-100	Integral overshoot suppression (P = 0 does not display)
T	T	20	1-100	The cycle (P = 0 does not display)
SC	SC	0	-199-199	Sensor correction value
LCK	LCK	0	0-111(BIN)	Password lock: 000 (Bin) all parameters can be modified 001 (Bin) SV AL1 AL2 modifiable 011 (Bin) SV modifiable 111 (Bin) all non modifiable All other can not be modified

## 五. Instrument Engineer parameter menu

After the instrument is energized, the "SET" key is pressed down with the "two" key at the same time. After about 3 seconds, the "Cod" is displayed in the PV display. In the "Cod" =001, press the "SET" button in turn to get and display the following parameters circularly:

Display character	Parameters	Default value	Adjustable range	Explain
SN	SN	K	B,S,R,T,K,N,J,E,PT,Cu	Graduation
SLL	SLL	-50	Sensor corresponding measurable range	Display lower limit
SLH	SLH	999	Sensor corresponding measurable range	Display upper limit
oud	OUd	0	0-1	Control mode: 0- heating 1- refrigeration
ouT	OUK	0	0-1	Output mode: 0- switch 1- continuous (1-5V or 4-20mA needs corresponding module support).
AC1	AC1	1	0-6	AL1 alarm mode: 0- without alarm 1 up deviation alarm 2 lower deviation alarm 3 up and down deviation alarm 4 up and down deviation internal alarm 5 process value upper limit alarm 6 process value lower limit alarm
AC2	AC2	0	0-6	AL1 alarm mode: 0- without alarm 1 up deviation alarm 2 lower deviation alarm 3 up and down deviation alarm 4 up and down deviation internal alarm 5 process value upper limit alarm 6 process value lower limit alarm
AH1	AH1	2	1-100	1 error of alarm
AH2	AH2	2	1-100	2 error of alarm
Unit	UNIT	0	0-1	Unit: 0 - °C 1-°F
DF	DF	50	0-100	Filter coefficient
COT	COT	0.4	0.00-10.0	Display inhibition
FAC	FAC	0	0-100 Overtemperature display limit	0- shutoff function Other values, beyond the set value. The portion of the excess is displayed proportionately Display value = SV+ (PV-SV) /FAC

When the Cod is changed to 911, the factory value menu can be restored.

## Measurement range of various types of sensors

Display character	Parameters	Adjustable range
b	B	500~999 ( Customized )
S	S	-50~999 ( Customized )
r	R	-50~999 ( Customized )
t	T	-50~999 ( Customized )
ε	K	-50~999
n	N	-50~999
J	J	-50~999
E	E	-50~800
PE	PT100	-50~800 ( Customized )
CU	Cu50	-50~150 ( Customized )

## 六. Error display function

When the meter does not work properly, the instrument will display message prompts after self diagnosis.

Message	Explain	Elimination method
Err	Instrument failure	Please send and repair
ooo	Input broken line, polarity connection or beyond the input range	Please check whether the input signal is wrong
uuu	Input broken line, polarity connection or beyond the input range	Please check whether the input signal is wrong

## 七. Matters of attention

1. check whether the instrument graduation number and power supply voltage are the same as the instrument.
2. Correct wiring according to the wiring diagram.
3. For thermocouple input signal, please use compensating wire with the same material as thermocouple wire.
4. For the thermal resistance input signal, use the same specification of low resistance wire, and the three line. The length is the same as possible.
- \*5. pay special attention to the power input line and sensor signal input line can not be confused. Otherwise, the whole instrument is burnt out and can not be repaired. The output terminal can not be strong. The current is short circuited. 6, the instrument power line and signal line should be separated from the high current output line as far as possible. The effect of less electromagnetic radiation on instruments is unavoidable. Select the shield line.
7. When ordering, please note:
  - ① Instrument model
  - ② Distribution number of sensor
  - ③ Instrument output type
  - ④ Measuring range
  - ⑤ Other special technical and functional requirements.

八、



WARNING

The product is strictly inspected before the factory is out of the factory, such as the product itself that has the right of responsibility for one year because of the quality problems, and does not bear any other joint liability. Damage caused by self dismantled or improper use is not within the scope of warranty.