

# TAISEE User's manual

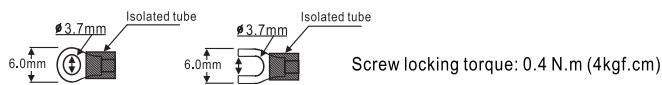
PID (TE series) Economical temperature controller

## Notes

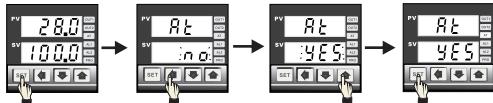
Before use, Please confirm Controller: Input / output and model. Whether the control requirements. And carefully read this manual

## ⚠ Warning:

Electrical wiring to complete the delivery controller.  
AC power supply before the assembly please make sure location is correct.  
Errors can cause serious damage control. Serious permanent damage may  
Do not susceptible to the controller assembly in  
the high-frequency interference. Corrosion device body "  
Normal working environment: -10 ~ 55°C: 90% RH below" the use of

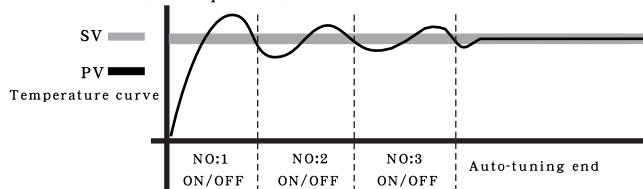


## AT (auto tuning) to achieve the best effect of proportional control



AT (auto-tuning) will get three ON / OFF process.  
In the whole process of controller switch-mode setting to complete. Three ON / OFF to complete.  
So, the process of speech super-AT is a normal temperature. Auto-tuning to complete. AT lights go out  
Controller Hui pants complex ratio of output mode

(Auto-tuning) to enable the controller to select the best  
T self-tuning PID values. Achieve precise temperature  
Control requirements. If the load special. (Auto-tuning)  
To complete. Temperature fluctuations in a small margin  
error. Can increase / decrease P value. Can be precisely  
Controlled Temperature



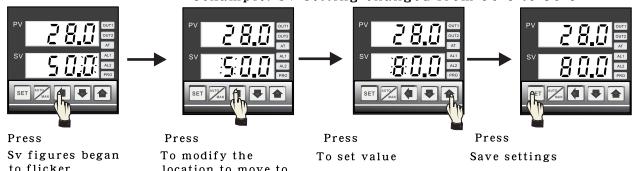
## Panel shows the direction and key functions

Symbol	Name	Function Description
<b>PV</b>	Detection value (PV)	Display Input sensor value (4-digit red 7-segment displays)
<b>SV</b>	Set value (SV)	Display the value of goal setting (4 Green 7-segment displays)
<b>SET</b>	Set (input) key	Parameter input keys & Function toggle key
<b>MAN/AUTO</b>	Manual/Auto change	Manual / Auto. Function keys to change
<b>◀</b>	Shift key (change selection)	Move to want to modify Office (blinking until the middle of Change) <b>◀</b> <b>▶</b>
<b>▼</b>	Reduce key (FUN Change)	Reduce the set value (FUN functional change)
<b>▶</b>	Increase key (FUN Change)	Increase the set value (FUN functional change)
<b>OUT1</b>	OUT1 (Output indicator)	The output action indicator light
<b>AT</b>	Automatic lamp	Start automatic calculation of indicator Lamp calculus complete lights extinguished
<b>AL1</b>	AL1 Alarm lamp	AL1 alarm indicator lamp
<b>AL2</b>	AL2 Alarm lamp	AL2 alarm indicator lamp
<b>MAN</b>	Manual mode lamp	Manual mode indicator flashes (cyclical) Have manual output

## Examples of use

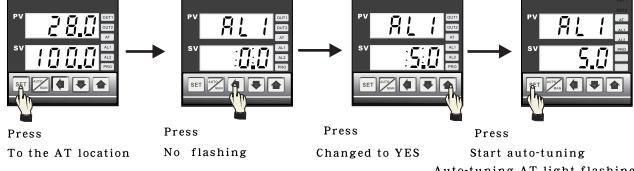
### SV (change the setting value)

Example: SV setting changed from 50°C to 80°C



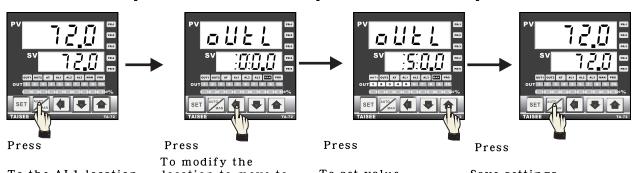
### AT (auto-tuning)

Proportional to achieve the best control effect of



### AL (Alarm Settings)

Example: SV +5°C over-temperature alarm output (AL1 = 5)



**L.PV<sub>r</sub>**

L.PV<sub>r</sub>  
PV test the value of low slope of the calibration

**H.PV<sub>r</sub>**

H.PV<sub>r</sub>  
PV test the value of high slope of the calibration

### Temperature of the calibration

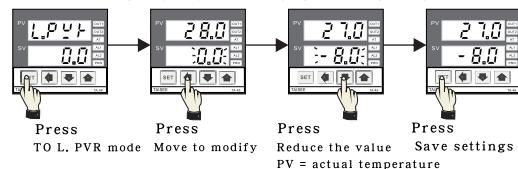
PV test the value of the high-point slope correction



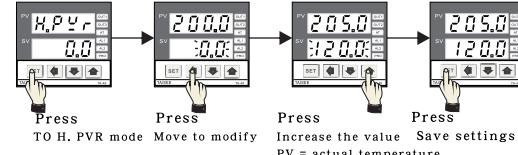
Value is the value of the slope. Does not mean that the temperature

PV test value is low slope of the calibration

PV LOW SLOPE OF THE CALIBRATION SAMPLE:  
PV VALUE IS HIGH THE ACTUAL VALUE 1°C



PV HIGH SLOPE OF THE CALIBRATION SAMPLE:  
PV VALUE IS LOWER THAN THE ACTUAL VALUE 5°C



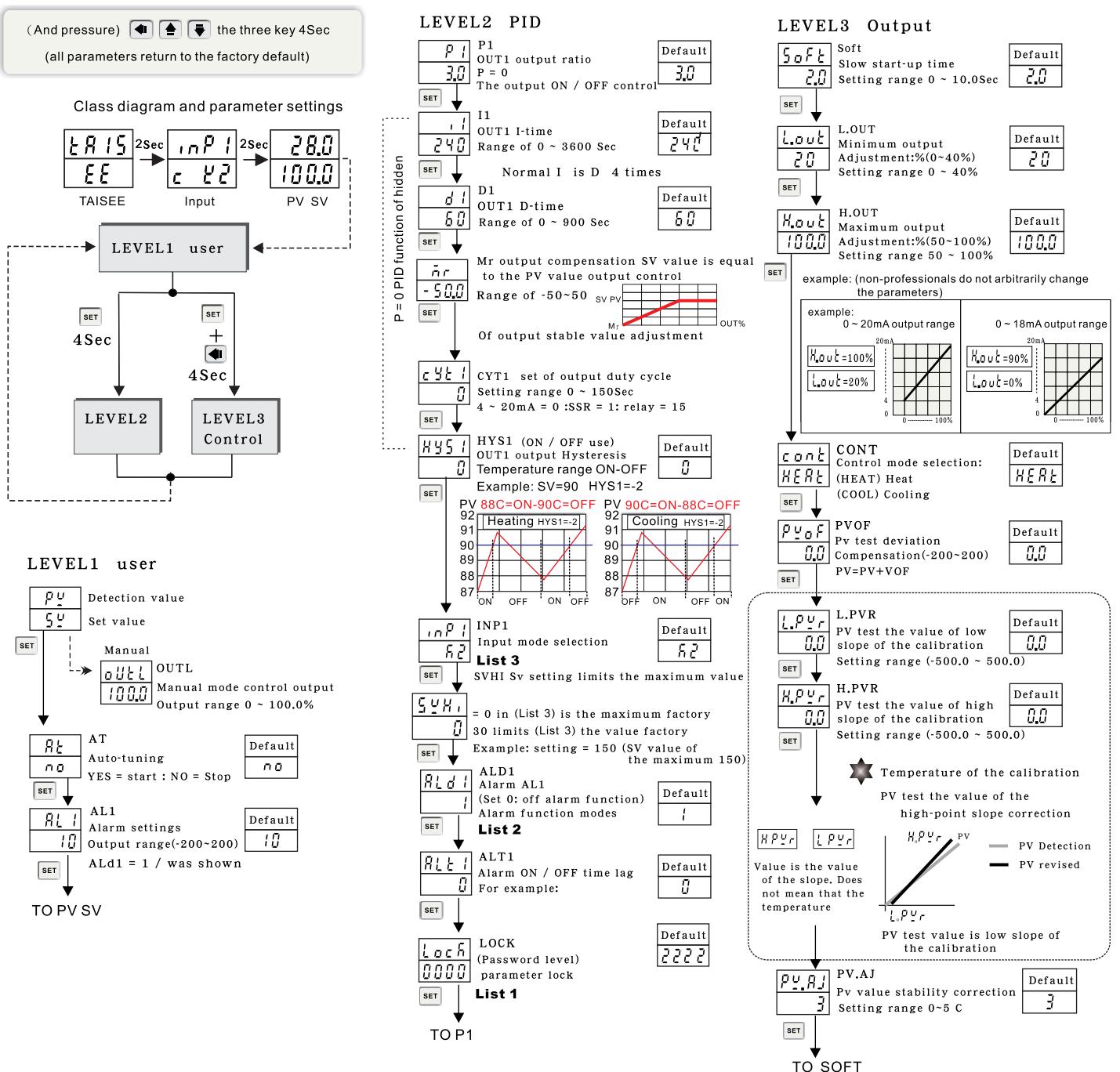
Press **◀** **▶** **↑** **↓** 4Sec all parameters return to the factory

## List 1

## Password settings

Lock	LEVEL1 User	LEVEL2 PID	LEVEL3 Control	Function Description
0000	<input checked="" type="radio"/>	<input checked="" type="radio"/>		LEVEL 1 and password can be changed
1111	<input checked="" type="radio"/>	<input checked="" type="radio"/>		LEVEL1 and LEVEL2 parameters may change
2222	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	All parameters can be changed LEVEL
3333	<input checked="" type="radio"/>	<input checked="" type="radio"/>		SV and password can be changed only

## Parameter settings at all levels

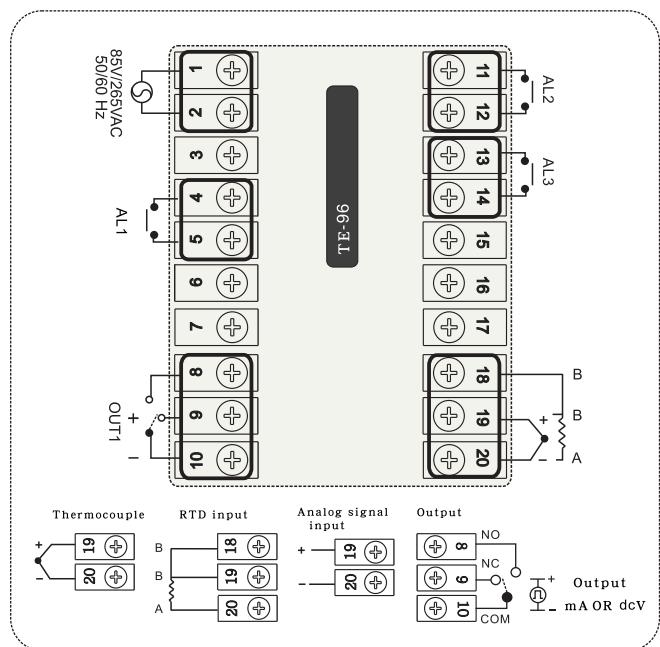
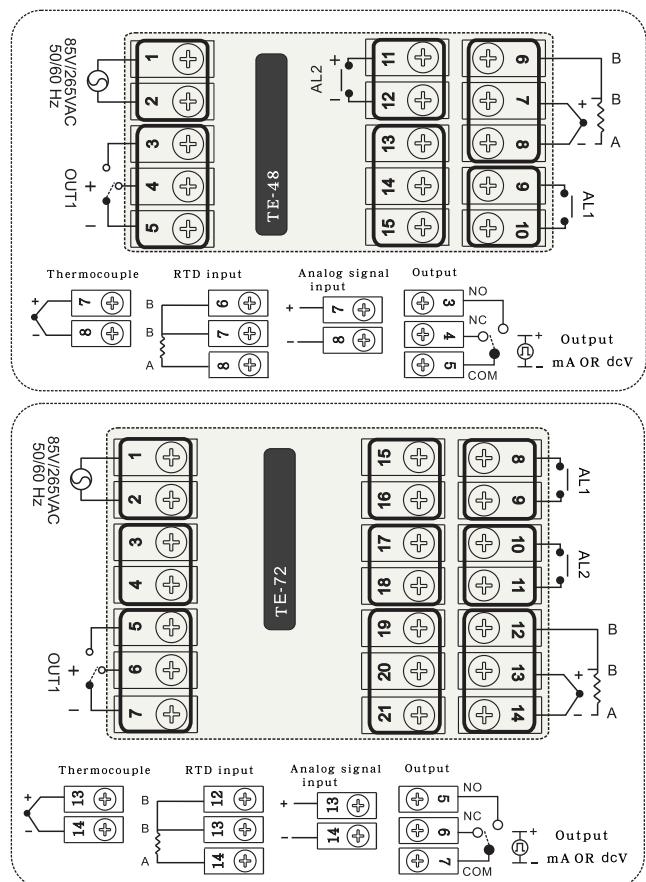


01	Deviation high alarm (The first no-alarm) 
11	Deviation high alarm 
02	Deviation low alarm (The first no-alarm) 
12	Deviation low alarm 
03	Deviation high and low alarm (The first no-alarm) 
13	Deviation high and low alarm 

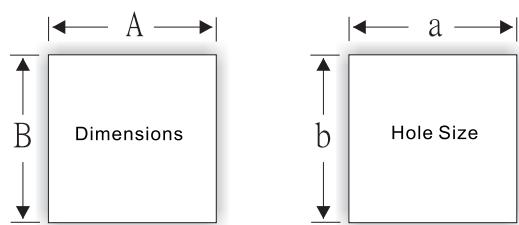
04	Zone Alarm 
05	Absolute high alarm (The first no-alarm) 
15	Absolute high alarm 
06	Absolute low alarm (The first no-alarm) 
16	Absolute low alarm 
0	Not alarm

Mode	Test temperature range	Mode	Test temperature range		
K	K3	0~600 C (1112 F)	K4	0~800 C (1472 F)	
	K5	0~1000 C (1832 F)	K6	0~1200 C (2192 F)	
	J1	0.0~200.0 C (392.0 F)	J2	0.0~400.0 C (725.0 F)	
J	J4	0~600 C (1112 F)	J4	0~800 C (1472 F)	
	J5	0~1000 C (1832 F)	J6	0~1200 C (2192 F)	
	R	0~1600 C (2912 F)	R2	0~1769 C (3216 F)	
S	S1	0~1669 C (2912 F)	S2	0~1769 C (3216 F)	
	T	T1	-199.9~400.0 C (999.9 F)	T2	-199.9~200.0 C (999.9 F)
	B	B	0~1800 C (3300 F)	E	0~900 C (1472 F)
F	F1	400~1200 C (2192 F)	F2	700~2000 C	
	PT1	-199.9~200.0 C (999.9 F)	PT2	-199.9~400.0 C (725.0 F)	
	PT3	-199.9~600.0 C (999.9 F)	PT4	0~200 C (392 F)	
RTD	PT5	0~400 C (725 F)	PT6	0~600 C (1112 F)	

## Wiring diagram



## Size Description



## Error Message Descriptions

<b>IN1E</b>	IN1E the input signal error (open circuit. Polarity is reversed) Remedy: Check the input signal is correct
<b>CJCE</b>	CJCE temperature compensation For failure Remedy: Check input diode Temperature compensation
<b>UUU1</b>	UUU1 input signal (greater than USPL) Remedy: Check input range Beyond the
<b>NNN1</b>	NNN1 input signal (less than LSPL) Remedy: Check the input signal is less than LSPL
<b>ADCF</b>	ADCF detect errors which may be Electrical wiring caused by a mistake Remedy: internal DA converter Signal error (repair)
<b>RAMF</b>	RAMF memory failures Remedy: (repair)

Size	A	B	a	b
TE-48	48	48	45	45
TE-72	72	72	68	68
TE-96H	48	96	45	91
TE-96W	96	48	91	45
TE-96	96	96	91	91

## TE series (model specifications)

Model:	Input mode:	NO:1 Output:	NO:2 Output:	Alarm:	Remote Output	Remote input	Communic	Main power:
<b>TE48</b>	48*48	0 K	0 NONE	0 NONE	Transfer function of the main table	0 NONE	0 NONE	0 AC85~265V
<b>TE72</b>	72*72	1 PT100	1 RELAY	1 AL*1		0 NONE	0 NONE	
<b>TE96W</b>	48*96	2 J	2 SSR	2 AL*2				
<b>TE96H</b>	96*48	3 R	3 4~20mA					
<b>TE96</b>	96*96	4 S	4 1~5V					
		5 B	5 0~10V					
		6 E	6 Open loop Motor valve					
		7 T						
		8 F						

CYT1

The output cycle (0.1~1mS) can be set up to speed control of SSR is similar to zero (Zhou Bo) power regulator function

- Standard (has additional features)
- Standard (which can change the function)
- Purchasing goods (subject to additional features plus options)