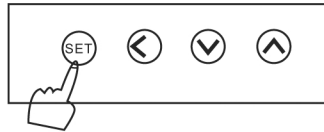


4. Menu

4.1 Menu I

As shown in the right figure, press and hold the "SET" key for 3 seconds to enter Menu I.



4.1.1 Description of Parameters in Menu I:

The following parameter symbols will successively and circularly display each time after pressing the "SET" key, the adjusted parameters are not saved till exiting the menu, or the modified parameters are saved and then exited by long press the "SET" key for 3 seconds.

Symbol	Name	Scope	Factory Defaults	Description
At	Self-tuning At	NO or YES	NO	At=YES, the self-tuning is enabled, AT=NO, the self-tuning is disabled.
AL1	1-way Alarm	-1999 to 9999	10	Used to set the value of Alarm I, and the 1-way alarm return difference = AH1
AL2	2-way Alarm	-1999 to 9999	10	Used to set the value of Alarm II, and the 2-way alarm return difference = AH2
SC	Measured Value Modification	-199 to 199	0.0	Used to modify the measured value errors caused by sensors and other factors
P	Proportional Band	0.0 to 200.0	30.0	The proportional band at PID adjustment, the unit is "degree", and when P=0.0, it is digit control
OH	Two-digit Return Difference	0 to 999	1.0	When P=0.0, it is digit control, and the return difference is 0H For heating process, when PV is larger than SV, it is enabled, and when PV is smaller than SV-0H, it is disabled For cooling process, when PV is larger than SV+0H, it is enabled, and when PV is smaller than SV, it is disabled
I	Integral Time	0 to 3600 seconds	210	For integral time, when I=0, the integral is closed The smaller I is, the stronger the integral action will be, but it is easy to cause fluctuation
D	Derivation Time	0 to 3600 seconds	30	For derivation time, when d=0, the derivation is closed And an appropriate increase will help to reduce the overshoot of the system.
t	Control Period	0 to 999 seconds	20	The control period at PID control It is suggested to be 20 seconds in relay output, and 2 seconds in SSR output.
rE				Standby
rSt	Proportion Resetting	-199 to 200	-5.0	Used to restrain the overshoot at PID control (rst is set to be larger than -P/2)
buff	Output Buffer Capacity	0.0 to 100%	100.0	It is best to conclude through self-tuning (the smaller the value is, the slower the heating will be) The analog output value (the maximum percentage of variation of the limit output quantity per second) 100% means not to buffer. *Only used for analog output instruments For example, buff=5% means that the maximum variation of output quantity per second is limited to 5%
LCK	Parameter Values	0-2	0	LCK=0: all the parameters are allowed for modification LCK=1: only the master control setting values and the self-tuning are allowed for modification LCK=2: only the self-tuning are allowed for modification

4.2 Password Field

As shown in the figure below, press and hold the "SET" key and the **4** key at the same time for 3 seconds to enter the password field

Password Field PASS



4.3 Menu II

Password Field PASS



Enter the password PASS=0002 in the password field according to "4.2 Description", and then press the "SET" key to enter "Menu II".

The following parameter symbols will be successively and circularly displayed each time after pressing the "SET" key, the adjusted parameters are not saved till exiting the menu. In this process, if there are no arguments to set, press and hold the "SET" key for 3 seconds to exit.

Symbol	Name	Scope	Factory Defaults	Description																																			
INP	Input Signal Selection	<table><tr><td>Display</td><td>P</td><td>E</td><td>J</td><td>N</td><td>Wu3-RE25</td><td>S</td><td>T</td><td>R</td><td>B</td></tr><tr><td>Input</td><td>K</td><td>E</td><td>J</td><td>N</td><td>Wu3-RE25</td><td>S</td><td>T</td><td>R</td><td>B</td></tr><tr><td>Applicable Scope</td><td>1300℃</td><td>600℃</td><td>800℃</td><td>1300℃</td><td>2000℃</td><td>1600℃</td><td>400℃</td><td>1700℃</td><td>1800℃</td></tr></table>								Display	P	E	J	N	Wu3-RE25	S	T	R	B	Input	K	E	J	N	Wu3-RE25	S	T	R	B	Applicable Scope	1300℃	600℃	800℃	1300℃	2000℃	1600℃	400℃	1700℃	1800℃
		Display	P	E	J	N	Wu3-RE25	S	T	R	B																												
		Input	K	E	J	N	Wu3-RE25	S	T	R	B																												
		Applicable Scope	1300℃	600℃	800℃	1300℃	2000℃	1600℃	400℃	1700℃	1800℃																												
		<table><tr><td>Display</td><td>AN4</td><td>AN3</td><td>AN2</td><td>AN1</td><td>Pt</td></tr><tr><td>Input</td><td>2-10VDC 1-5VDC 4-20mA</td><td>0-10VDC 0-5VDC 0-20mA</td><td>0-50mV</td><td>0-20mV</td><td>Pt100 -200~800℃</td></tr></table>								Display	AN4	AN3	AN2	AN1	Pt	Input	2-10VDC 1-5VDC 4-20mA	0-10VDC 0-5VDC 0-20mA	0-50mV	0-20mV	Pt100 -200~800℃																		
Display	AN4	AN3	AN2	AN1	Pt																																		
Input	2-10VDC 1-5VDC 4-20mA	0-10VDC 0-5VDC 0-20mA	0-50mV	0-20mV	Pt100 -200~800℃																																		
dP	Decimal Point Position	0 to 3	0	0: no decimal point 1: one decimal point (applicable for all input signals) 2: two decimal points 3: three decimal point (only applicable for analog input signal)																																			
SLL	Setting of Minimum Set Value	-1999 to 9999	0	Limit the lower limit of the master control set value or the 0-bit value at transmission output																																			
SLH	Setting of Maximum Set Value	-1999 to 9999	400	Limit the upper limit of the master control set value or the full-bit value at transmission output																																			
Unit	Display Unit	C or F	C	C: Celsius F: Fahrenheit R: No symbol																																			
P_Ft	Digital Filtering	0 to 60	55	1-30 as Grade I filtering, and 31-60 as enhanced filtering																																			
ANL	Zero-bit Display Value of Linear Analog Input	-199~9999	0	For example, at 4-20mA input, the display value of 4mA is ANL																																			
ANH	Full-bit Display Value of Linear Analog Input	-1999~9999	2000	For example, at 4-20mA input, the display value of 20mA is ANH																																			
Ad1	1-way Alarm Mode	00 to 16	11	Used for setting the 1-way alarm mode, see ** alarm mode table																																			
Ad1	1-way Alarm Return Difference	0.0 to 100.0	0.4	1-way alarm output return difference (high alarm: lower return difference; low alarm: upper return difference)																																			
Ad2	2-way Alarm Mode	00 to 16	10	Used for setting the 2-way alarm mode, see ** alarm mode table																																			
Ad2	2-way Alarm Return Difference	0.0 to 100.0	0.4	2-way alarm output return difference (high alarm: lower return difference; low alarm: upper return difference)																																			
QuD	Reverse/Positive Reaction Setting	HEAT or COOL	HEAT	HEAT: Reverse reaction (heating) COOL: Positive reaction (cooling)																																			
buF	Analog Output Buffering Function (only for Analog Output Type)	0,1,2	0	0: no output buffering function 1: permanent buffering function of output variation 2: buffering function at output increase, and no buffering at output reducing (the variation rate of output increase per second is determined by buff in the main menu). Selection 2 can also be used as a soft-start function of analog output																																			
IdAd	Communication Address	0-127	1	Used for setting communication address of instruments																																			
bAd	Baud Rate		9.6	Baud rate selections 2.4K, 4.8K, 9.6K and 19.2K																																			

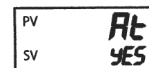
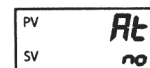
**Alarm Mode Table (Ad_00~16)

- | | |
|-----------------------------------|--|
| 10: No alarm output function | 00: No alarm output function |
| 11: Deviation high alarm | 01: Deviation high alarm, with standby function |
| 12: Deviation low alarm | 02: Deviation low alarm, with standby function |
| 13: Deviation scope outside alarm | 03: Deviation scope outside alarm, with standby function |
| 14: Deviation scope inside alarm | 04: Deviation scope inside alarm, with standby function |
| 15: Absolute value high alarm | 05: Absolute value high alarm, with standby function |
| 16: Absolute value low alarm | 06: Absolute value low alarm, with standby function |

Note: The "standby function" means that if the temperature in the first round of power-on is within the alarm scope, there will be no alarm, and only if the temperature is beyond the alarm scope and once gain enters the alarm scope, the alarm will be sent.

5. Self-tuning (it is suggested for users to adopt self-tuning to improve the control effect)

At the beginning of power-on of the instrument, and the measured value is far lower than the set value, start the self-tuning to achieve the best effect.



Press and hold the "SET" key for 3 seconds or complete the cycle to exit Menu I and start self-tuning

Press and hold the "SET" key for 3 seconds to enter Menu I

The panel AT flashing lamp means entering the self-tuning state. To exit the self-tuning, set the AT value to "no" after entering AT menu. The self-tuning process is digit controlled, depending on different systems, the temperature in the self-tuning process may show large fluctuations, and the self-tuning time may also be different. After the self-tuning is completed, the AT window stops flashing alternately, the P, I, D, rE, rSt parameters obtained by self-tuning are automatically saved, and the instrument automatically returns to normal monitoring and controlling state to continue running with new parameters of P, I, D, rE and rSt.