

OPERATION MANUAL

UCI Series Digital PID Controller

Thanks a lot for selecting **ABUSTEK** products! before operating this instrument, please read this manual carefully and fully understand its contents. In case of any problems, please contact our sales Dept. or distributors from whom the instrument has been supplied. The manual contents is subject to change without prior notice.

Introduction



UCI Series is a Digital PID Controller, which can be applied in high-precision measurement and control of temperature, pressure, discharge, liquid level and humidity etc... A four-digit LCD dual display shows measured value and set-value for all programming parameters.

Technical Parameters

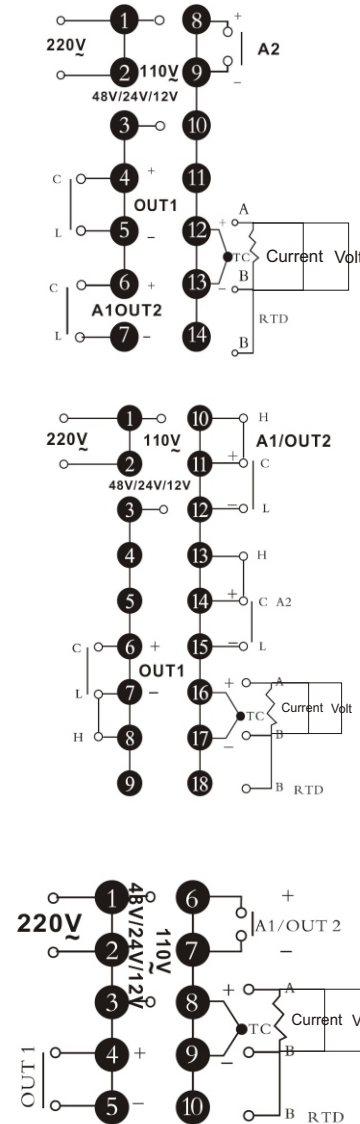
- Display** : PV=Red LED/SV=Green LED, 4 Digit.
- PV Input** : Pt100, Thermocouple Type J, K, E, S, T, B.
0~10mA, 0~20mA, 4~20mA DC; 0~5V 1, ~5V, 0~10V DC.
- Accuracy** : Within $\pm 0.25\%$ of max. Scale span ± 1 digit.
- Input Sampling** : 200ms
- Control Action** : PID Control, PD Control, ON/OFF control with hysteresis.
- Control Output** : 0~5V, 0~10V 4~20mA DC Resistive loads.
- Power supply** : 220V, 50Hz, Range: 185~380V AC
- Ambient temperature** : 0~50°C
- Relative humidity** : 35~85%RH
- Dimensions** : All standard size range

Ordering Details

	TYPE	DESCRIPTION
Product	UCI	Digital PID Controller
Size	9	96 mm x 96mm x 58mm
	8	48 mm x 96mm x 58mm
	7	72 mm x 72mm x 69mm
	6	96 mm x 48mm x 58mm
	4	48 mm x 48mm x 67mm
Input	T	Pt100, K, E, J, S, T, B
	I1	4~20 mA
	I2	0~10mA
	I3	0~20mA
	V1	0~5V
	V2	1~5V
	V3	0~10V
Output	R	Relay
	S	SSR
	C	SCR
	I	4~20 mA
	V1	0~5 V
Alarm	-	No Alarm
	A1	Alarm 1
	A2	Alarm 2
Auxiliary Power Supply	-	No optional power supply
	12	With 12V DC
Power Supply	24	With 24V DC
	S	220V, 50 Hz, Range: 185~380V AC
	NS	110V, 50 Hz, Range: 85~264V AC

Example: UCI > 9 > T > I > A1 > 24 > S

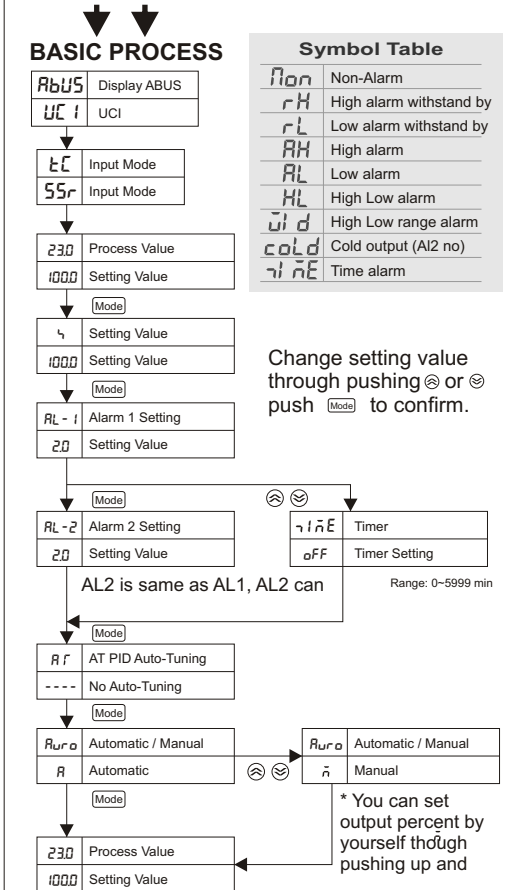
Connections



Dimensions

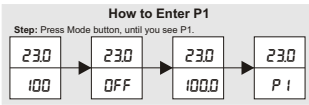
PANEL DIMENSION CODE	PANEL DIMENSION			HOLE CUTOOUT DIMENSION	
	H	W	D	W	H
9	96	96	58	91	91
8	48	96	58	43.8	91
7	72	72	72	66.3	66.3
6	96	48	67	91	43.8
4	48	48	67	45.1	45.1

Operation Process

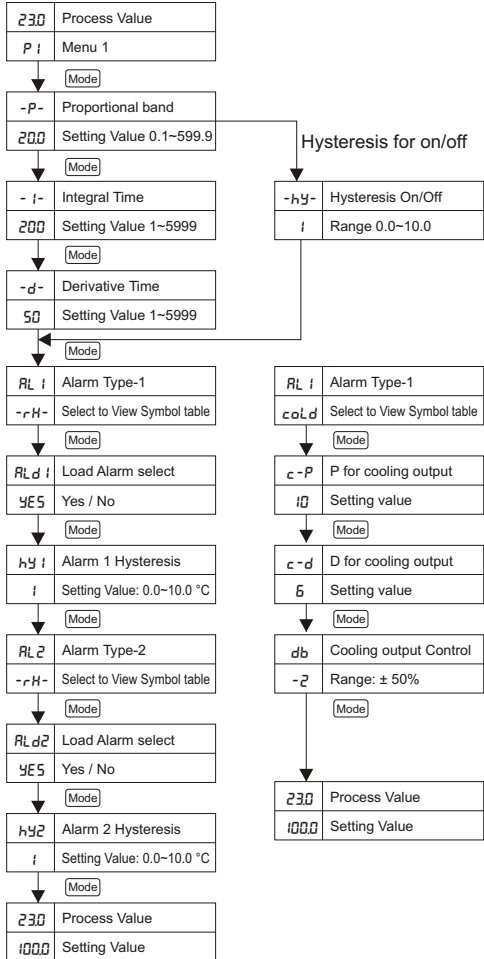


* You can set output percent by yourself though pushing up and

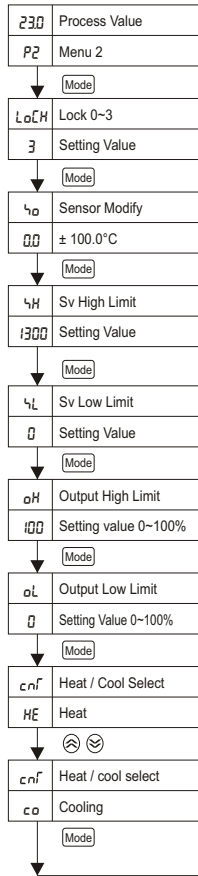
Operation Process



ENTERING MENU 1



ENTERING MENU 2

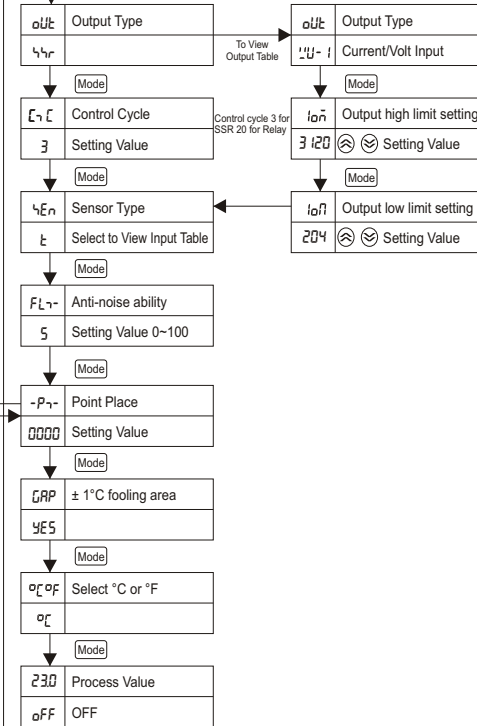
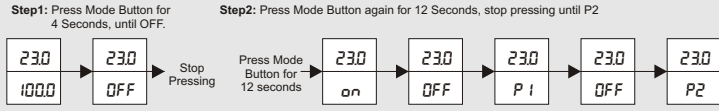


It will not display

Input Table

PT	Pt100
H	Thermocouple K
E	Thermocouple E
Y	Thermocouple S
t	Thermocouple T
b	Thermocouple B
J	Thermocouple J
U1	Current/Volt Input

How to Enter P2



Output Table

44r	SSR, 12 V ≤ 40mA
rLY	Relay
44L	SSC
U-1	0~20mA, 4~20mA
	0~10V, 1~5V

Limited Warranty

The products are warranted to be free from defects in materials and workmanship for a period of one (1) year from the date of shipment, subject to the following terms and conditions: Without charge, they will repair, replace, or refund the purchase price at option products found to be defective in materials or workmanship within the warranty period; provided that:

- the product has not been subjected to abuse, neglect, accident, incorrect wiring not our own, improper installation or servicing, or use in violation of labels or instructions;
- the product has not been repaired or altered by anyone except us;
- the maximum ratings label and serial number or date code have not been removed, defaced, or otherwise changed;
- examination discloses, in the judgment of us, the defect in materials or workmanship developed under normal installation, use and service; and
- Our system is notified in advance of and the product is returned to us transportation prepaid before expiration of the warranty period.

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