

UTH-SN2 MANUAL



FRONT



SIDE



REAR INPUT/OUTPUT TERMINAL
AND SENSOR TERMINAL UNIT

1. LED DISPLAY

HEATING ON LED: THIS DISPLAYS WHEN OUTPUT IS ON.

TEMP DISPLAY WINDOW: THE PRESENT TEMP IS DISPLAYED.

(BY PUSHING UP /DOWN S/W, THE SET TEMP VALUE IS DISPLAYED. IF CHANGING THE VALUE, THE SET VALUE IS CHANGED AND THE PRESENT TEMP IS DISPLAY AFTER 3SEC.)

TIME DISPLAY WINDOW: THIS FND DISPLAYS THE TIME TILL MOTION IS COMPLETED AND IS ABLE TO CONTROL WITH ▼ OR ▲ KEY.

BASIC MOTIONS : SWITCH ON / OFF THE POWER WITH POWER KEY AND IF POWER OFF, OTHER KEYS DO NOT OPERATE. TIMER STARTS THE COUNT BY POWER ON AND IF TIMER IS "0", THE POWER IS OFF UNCONDITIONALLY.

(BEFORE 10SEC PRIOR TO CLOSING A RESERVATION, BUZZ SOUNDS FOR 3TIMES)

2. ERROR DISPLAY

IF SENSOR IS SHORT OR SNAPPED, OUTPUT IS BROKEN UNCONDITIONALLY.

EO: IT IS CAUSED BY THE SNAPPING OF TEMP SENSOR. = EO FLICKERS AND OUTPUT OFF (BUZZ SOUNDS)

ES: IT IS CAUSED BY THE OF TEMP SENSOR = ES FLICKERS AND OUTPUT OFF (BUZZ SOUNDS)

OHT: IT IS CAUSED BY ERROR IN OVERHEATING SENSOR = OHT FLICKERS AND OUTPUT OFF (BUZZ SOUNDS)

*** ALL THESE ARE DISPLAYED ON THE TEMP DISPLAY WINDOW.

3. LOCK FUNTION

IF PUSHIGN UP/DOWN KEYS FOR TIME SET FOR 3SEC SIMULTANEOUSLY, LOCK FUNCTION IS SET WITH BUZZ SOUND.

IN THIS CASE, ANY KEY WILL NOT WORK EXCEPT POWER ON/OFF KEY.
 FOR CANCELLING LOCK, DO THE SAME TO MEHTDOD FOR LOCK.

4. BASIC MOTIONS

BY PUSHING UP/DOWN BUTTONS FOR SET TEMP FOR 3SEC SIMULTANEOUSLY, “**STN**” – START OF FUNCTIONS – IS DISPLAYED. THEN BY PUSHIGN UP BUTTON, **SEN-TIN** IS DISPLAYED. IN CASE A MENU TO BE WISHED SET, PUSH UP/DOWN BUTTONS SIMULTANEOUSLY.

SET RANGE WHEN SELECT **SEN(SENSOR)**

CLASSIFICATION	DISPLAY	BASIC SET	SCOPE OF SET	EXPLANATION OF MOTIONS
FUNCTION CLASS.	STN	SEN	SEN,TIN	SEN-SENR METHOD, TIN-TIMER METHOD,
AIR COOLING/HEATING	H-C	HH	HH,CC	HH-HEATING DISPLAY , CC-AIR COOLING DISPLAY
MIN. TEMP SET	T-L	05℃	05℃~120℃	SET THE LOWEST TEMP VALUE IN THE TEMP ZONE
MAX. TEMP SET	T-H	120℃	05℃~120℃	SET THE HIGHEST TEMP VALUE IN THE TEMP ZONE
TEMP DEVIATION SET	DIF	0℃	0℃~5℃	ON/OFF IN THE DEVIATION OF SET AND PRESENT TEMP
OUTPUT DELAY TIME	DLY	20SEC	1SEC~60SEC	IN CASE OUTPUT IS ON, OUTPUT DELAYS AS MUCH AS THE TIME
OVERHEATIG CHANGE FUNCTION	OHT	120℃	UNDER MAX. TEMP ~120℃	IN CASE OF EXCEEDING SET VALUE, OUTPUT IS BROKEN. (OHT FLICKERS)
BASIC RESISTANCE VALUE	RES	00	-50~50	BASIC RESISTANCE VALUE FOR IMPROVING THE ACCURACY OF TEMP ZONE

AFTHER SET IS COMPLETED TO THE LAST STEP, “**SAU**” FLICKERS FOR 3TIMES AND IS SAVED.

5. TIME SET

- 1). LTH=FUNCTION FOR SET THE RNAGE OF TIME BY USING UP/DOWN BUTTON
 (IF COMPLETING THE DESIRED TIME SET (01-90MIN), PUSH AGAIN UP/DOWN BUTTONS SIMULTANEOUSLY.
- 2). INT=FUNCTION FOR SETTIGN THE RANGE OF RESERVATION TIME (1-30MIN). IF COMPLETING THE DESIRED TIME SET (01-90MIN), PUSH AGAIN UP/DOWN BUTTONS SIMULTANEOUSLY. “**SAU**” FLICKERS FOR 3TIME AND IS SAVED.
 EX)LTH: IF SET 90MIN., INT=10MIN, BY PUSHING UP BUTTON IN THE RIGHT SIDE OR DOWN BUTTON IN THE LEFT SIDE, THE TIME DISPLAY IS ASSIGNED BY THE UNIT OF 10 MIN,TILL 90MIN. IF UP EXCEEDING 90MIN. “**ON**” IS DISPLAYED. (ON= ALWAYS ON KEEPS THE STATE OF ON) (BASIC VALUE, IN CASE OF LTH-90MIN, INT-1MIN).

6. INITIALIZATION FUNTION

THIS RESETS THE SET VALUES OF CONTROLLER. BY PUSHING POWER S/W FOR ABOUT 10SEC, IT IS INITIALIZED AFTER “**SAU**” FLICKERS FOR 3TIMES AND ALL SET VALUES ARE TO BE INITIALIZED.

MODEL: UTH-SN2 SPEC

CLASSIFICATION	ITEM		SPECIFICATIONS
POWER UNIT	RATED INPUT VOLTAGE		85VAC ~ 265VAC (UNIVERSAL VOLTAGE)
	OUTPUT VOLTAGE		85VAC ~ 265VAC(UNIVERSAL VOLTAGE)
	DRIVE METHOD		ELECTRONIC
	MAX. OUTPUT		3KW
	LOAD	NO. OF CIRCUIT	1CIRCUIT
		MAX. CAPACITY	WITHIN 15A (RESISTANCE LOAD)
OUTPUT VOLTAGE		85VAC ~ 265VAC (SAME TO INPUT VOLTAGE)	
ACCURACY	TEMP. ACCURACY	±1℃ : CONDON OF CHANING 1℃ PER 30SEC. (DELAY OPTION:20 SEC.)	
MOTIONS	POWER INPUT DISPLAY		NUMERICAL DISPLAY
	OUTPUTDISPLAY		RED LAMP DISPLAY
	TEMP. ZONE		SELECT WITHIN ZONE OF -20℃ ~ 180℃
	OUTPUT DELAY		1 ~ 60SEC
SENSOR	KIND		NTC : NEGATIVE TEMPERATURE COEFFICIENT EPOXY MOLDING
	ACCURACY (%)		1%
	25℃ RATED RESISTANCE		5000OHM, BETA CONSTANT = 4000 ⁰ K
	QUANTITY		SENSOR 1 : FOR SENSING TEMP, SENSOR 2 : FOR CHECKING OVERHEATING (OPTION)
FUNCTION (PERFORMANCE)	SAFE DEVICE	SNAP OF SENSOR CABLE, SHORT	IF SNAP IN SENSOR CABLE, CHANGE TO TIMER OPERATION AUTOMATICALLY. IN SHORT IN SENSOR CABLE, OUTPUT IS BROKEN AUTOMATICALLY WITH ES(ERROR SHORT) DISPLAY ** TIME RESERVATION: WITH TIMER. IF TIME IS OFF, CONROLLER IS OFF AUTOMATICALLY AND RETURN MANUALLY.
		OVERHEATING PREVENTION SENSOR (OPTION)	IF RAISING TEMP TILL SETTED OVERHEATING TEMP, POWER IS BROKEN AUTOMATICALLY AND OHT(OVERHEAT) IS DISPLAYED.
		RESISTANCE FOR FUSE	10 OHM (FOR PROTECTING CIRCUIT IN THE THERMOSTAT)
OTHERS	OUTER CASE		OUTER: NONFLAMMABLE ABS
	WEIGHT		180G
	CASE (MM)		70(W)×120(H)×45(D)
	USE TEMP.	AIR TEMP.	0℃ ~ 40℃
		AIR HUMIDITY	UNDER 85%