

UTH-JP MANUAL



1. S/W MOTIONS

- ① POWER S/W: POWER S/W FOR ON/OFF OF CONTROLLER.
- ② ▲ S/W : USE FOR UP THE SET TEMP.
- ③ ▼ S/W : USE FOR DOWN THE SET TEMP.
- ④ HOUR S/W: S/W FOR SETTING THE WATCH (HOUR), IN CASE OF RESERVATION, SET THE HOUR UNIT OF TIME WISHED FOR.
- ⑤ MIN. S/W: S/W FOR SETTING THE WATCH (MIN.), IN CASE OF RESERVATION, SET THE MIN. UNIT OF TIME WISHED FOR..
- ⑥ CLEAR S/W: S/W FOR CANCELLING THE SET IN THE PROCESS OF RESERVATION OR RELEASING THE SET TIME.
- ⑦ PROGRAM S/W: SET THE TIME OF RESERVATION WHEN NEEDS A RESERVATION OPERATION. .

2. LED DISPLAY

- ① NO-TIMER : ON WHEN THE PRESENT TEMP IS ADJUSTING WITHOUT RESERVATION.
- ② HEAT : ON WHEN POWER IS SUPPLIED TO LOAD.
- ③ TIMER : ON WHEN THE RESERVE OPERATION IS PROCESSING ACCORDING TO RESERVATION.
- ④ ON TIME : IN THE STATE OF RESERVATION, ON DISPLAYS WHILE TEMP ADJUSTEMENT IS PROCESSING.
- ⑤ OFF TIME: OFF DISPLAY DURING TEMP ADJUSTEMENT IS STOPPED IN THE STATE OF RESERVATION..
- ⑥ TEMP DISPLAY SCREEN: ORDINAALLY THE PRESENT TEMP IS DISPLAYED. BY PUSHING UP OR DOWN S/W, THE SET TEMP IS DISPLAYED. BY CHANGING THE VALUE, THE SET VALUE IS CHANGED AND AFTER 3SEC, THE PRESENT TEMP IS DISPLAYED. .
- ⑦ WATCH DISPLAY SCREEN: THE PRESENT TIME IS DISPLAYED. IN CASE OF SETTING RESEARVATION, SELECT THE TIME WISHED FOR AND SAVE.

⑧ AM,PM: DISPLAY A.M/P.M. ON WATCH.

3. BASIC MOTION

THE POWER IS ON/OFF WITH POWER KEY AND IN CASE OF OFF, ANY KEY DOES NOT WORK.

BY PUSHING ▼ ▲ KEYS FOR 3SEC AT THE SAME TIME, **Stn** (BEGINNING OF FUNCTION) IS DISPLAYED AND AFTER SET EACH FUNCTION, BY PUSHING ▼ ▲ KEYS FOR 3SEC AT THE SAME TIME, IT IS SAVED AND TURN TO THE NEXT FUNCTION, AFTER SAVING ALL FUNCTIONS, **SAU** FLICKERS THREE TIMES AND THE PRESENT TEMP IS DISPLAYED.

4. EMERGENCY MOTION

- ① DISPLAY WHEN TEMP SENSOR IS SNAPPED: FLICKER AS **Eo** (INTERCEPTION OF OUTPUT) = WARNING SOUND
- ② DISPLAY WHEN TEMP SENSOR IS SHORT: FLICKER AS **ES** (INTERCEPTION OF OUTPUT) = WARNING SOUND
- ③ DISPLY WHEN OVERHEAT SENSOR IS RUNNING: **Oht** FLICKERS = WARNING SOUND (RETURN BY MANUAL)

5. RESERVE OPERATION

IN CASE OF NECESSARY FOR ON RESERVE, PUSH PROGRAM S/W

“ON TIME” LAMP FLICKERS AND DISPLAY TO **00:00**. THEN SELECT ON TIME (THERMOSTAT WORKS) WITH MIN/SEC S/W, BY PUSHING RESERVE S/W ONCE AGAIN, “OFF TIME” LAMP FLICKERS AND DISPLAY TO **00:00**.

AT THIS TIME, SELECT THE TIME TO BE OFF (THERMOSTAT STOPS), THEN BY PUSHING PROGRAM S/W, THE SET TIME FLICKERS 3TIMES AND SAVE..

IT IS POSSIBLE TO SAVE THIS REPEATED ON/OFF FOR 5TIEMS A DAY. AFTER RESERVATION IS COMPLETED, THE PRESENT TIME IS DISPLAYED. IF THE PRESENT TIME IS UNDER THE RESERVED TIME, THE FUNCTION OF TEMP CONTROL IS STARTED AT ONCE. IF THE PRESENT TIME IS UNDER THE OFF TIME, THE FUNCTION OF TEMP CONTROL IS STOPPED AT ONCE.

IF THERE IS NO NEED TO RESERVE OR NEED TO BE CANCELLED, BY PUSHING THE CLEAR S/W, THE SAVED VALUES ARE DELETED. (CONFIRM A.M. / P.M.)

ROLES	DISPLAY	BASIC SET	SCOPE OF SET	EXPLANATION OF MOTIONS
FUNCTION CLASS.	Stn	SEN	SEN, TIN	SEN-SENSOR METHOD, TIN-TIMER METHOD,
AIR COOLING/HEATING	H-C	HH	HH, CC	HH-HEATING DISPLAY , CC-AIR COOLING DISPLAY
MIN. TEMP SET	t-L	0℃	-20℃ ~MAX.TEMP	SET THE LOWEST TEMP VALUE IN THE TEMP ZONE
MAX. TEMP SET	t-H	80℃	MIN.TEMP ~80℃	SET THE HIGHEST TEMP VALUE IN THE TEMP ZONE
TEMP DEVIATION SET	dIF	3℃	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	80℃	MAX. TEMP ~80℃	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

※ IF USE ONLY AS THERMOSTAT, BE SURE TO RELEASE THE RESERVATION FOR USE...

6. INITIALIZATION FUNCTION

BY PUSHING POWER S/W 10SEC FOR A LONG TIME AS MUCH AS 10SEC, **SAU** FLICKERS FOR 3TIMES AND IT IS INITIALIZED. . (INITIALIZATION IS SAVED AS THE BASIC SET OF THE ABOV TABLE.)

7. TIMER FUNCTION

BY PUSHING UP & DOWN KEY FUNCTION SIMULTANEOUSLY FOR 3SEC, THE INITIAL **STN** IS DISPLAY. IF PUSHING **▲** FOR ONCE TIME, **SEN** DISPLAY IS APPEARED.

AS A METHOD OF SENSOR, **SEN** IS THE SAME TO THE PRESENT USE ONE. BY PUSHING, BY PUSHING **▲** KEY ONCE AGAIN, **TIN** MARK IS DISPLAYED AND THE FUNCTION OF TIMER IS CONDUCTED.

① **HOW TO SET BY OPERATOR**= PUSH UP AND DOWN KEYS SIMULTANEOUSLY – **STN** IS DISPLAYED ON DISPLAY SCREEN – SELECT **TIN** – PUSH **▼▲** KEYS SIMULTANEOUSLY. – CYCLE VALUE DISPLAY(CYCLE) – SELECT CYCLE (BASIS: 3MIN.) – SET CYCLE VALUE – PUSH **▼ ▲** KEYS SIMULTANEOUSLY – **SAU** FLICKERS – COMPLETION OF STORE

* **BE SURE NOT TO PERFORM THE SETTING UP BY CONSUMER.**

② **HOW TO USE BY CONSUME** = WITH UP AND/OR DOWN KEY, SELECT LEVEL (BASIS: 1STEP)

THE FOLLOWING TABLE SHOWS THE LEVEL OF BASIC STEP.

STEP	OUTPUT(ON)	OUTPUT(OFF)	비 고
1	15SEC * S	45SEC * S	※ S: SLECTED CYCLE VALUE IF 1MIN, S=1 IF 3MIN, S=3 IF 4MIN, S=4 IF 5MIN, S=5 IF 6MIN, S=6 IF 7MIN, S=7 ※ (IF 20MIN, S = 20 , VALUE MULTIPLYING 20) ※ (IF 60 MIN, S = 60 , MULTIPLYING 60) IT BECOMES THE LENGTH OF ON AND OFF.
2	20SEC * S	40SEC * S	
3	25SEC * S	35SEC * S	
4	30SEC * S	30SEC * S	
5	35SEC * S	25SEC * S	
6	40SEC * S	20SEC * S	
7	45SEC * S	15SEC * S	
8	50SEC * S	10SEC * S	
9	55SEC * S	5SEC * S	
10	60SEC * S	0SEC * S	

BASIC CYCLE IS SET TO 3MIN CYCLE. (ABLE TO SELECT THE CYLCE FROM 1MIN TO 60MIN)

AFTER SELECTING CYCLE, BY PUSHING UP AND DOWN KEYS SIMULTANEOUSLY, SAU FLICKERS AND SETTING UP IS COMPLETED.(OPERATOR)

WITH LEVEL UNDER USE, CONSUMER MAY SELECT A CERTAIN TEMP. (CONSUMER)

BASIC STEP IS SETTED TO 1 LEVEL. (ABLE TO CONTROL THE LEVEL FROM 1ST LEVEL TO 10TH LEVEL)

8. SPEC

CLASS.	ITEMS		UHT-JP SPECIFICATIONS
RATING	RATED INPUT VOLTAGE		85V AC~265V AC
	FREQUENCY		50HZ / 60HZ
	START METHOD		ELECTRONIC
	POWER CONSUMPTION		ABOUT 2.5W
	LOAD	NO. OF CIRCUIT	1CIRCUIT
		MAX. CAPACITY	20A (RESISTANCE LOAD)
OUTPUT VOLTAGE		85V AC265V AC (SAME TO INPUT VOLTAGE)	
ACCURACY	TIME ACCURACY	WEEKLY MAX. DEVIATION +/- 1MIN. (0℃~30℃)	
	TEMP ACCURACY	±1℃ : CONDITON OF CHANING 1℃ PER 30SEC. (DELAY OPTION:20 SEC.)	
CONTACTING POINT	COMPOSITION OF CONTACTING POINT		1A: COM.× 2 EA PARALLEL CIRCUIT
	METHOD OF CONTACTING POINT		RELAY (MATSUSHITA: ALF1P12), 2 EA
	RATED CAPACITY OF CONTACTING POINT		30A, 250V AC, 2 EA PARALLEL CIRCUIT
	EXPECTED LIFE	MACHINERY	OVER 1,000,000TIMES
		ELECTRICITY	OVER 100,000TIMS 250VAC, 20A (IN CASE OF RESISTANCE LOAD)
SENSOR	KIND	NTC: NEGATIVE TEMPERATURE COEFFICIENT	
	25℃ RATED RESISTANCE	5,000OHM, BETA CONSTANT =4,000°K	
	QUANTITY	SENSOR1: FOR DETECTING TEMP, SENSOR2: FOR CHECKING OVERLAOD	
FUNCTION (PERFORMANCE)	SAFETY DEVICE	SNAPPING /SHORT OF SENSOR WIRE	IN CASE OF SNAP, EO (ERROR OPEN), IN CASE OF SHORT, ES (ERROR SHORT) THE POWER SUPPLY ON LOAD IS STOPPED AUTOMATICALLY.
		OVERHEAT PREVENTION SENSOR (OPTION)	THE POWER IS SPOTTED IN CASE OF REACHING TO THE SET TEMP FOR PREVENTING OVERHEAT. OHT (OVERHEAT) IS DISPLAYED AND WARNING SOUNDS. * POWER OFF/ON WITH MANUAL RETURN.
		RESISTANCE FOR USE	10 OHM (FOR PROTECTING CIRCUIT IN THE THERMOSTAT)
		INSULATING PAPER	NOMEX ARAMID PAPER 7-MILS TYPE 410
	TIRE (RESERVE)	NUMBER OF RESERVATION	SAVE 5TIMES (MAX)/DAY (1TIME=THE CYCLE OF ON/OFF)
		UNIT OF TIME SET	1MIN
	ON/OFF	ADJUSTMENT OF TEMP DIFFERENCE	ON/OFF BY COMPARING THE PRESENT TEMP AND SET TEMP.
		ADJUST OF TIME CYCLE	ON/OFF BY SETTIME CYCLE (CONTROL IN THE RANGE OF 60 MIN)
OTEHRS	OUTER CASE		ABS VH810 UL94 V-O (NONFLAMMABILITY)
	WEIGHT		270G
	DIMENSION		115(W) × 115(H) × 48(D) < FILLING UP TYPE >
	USE CONDITIONS	AIR TEMP/HUMIDITY	0℃~40℃, UNDER 85%

9. CONNECTIONS

