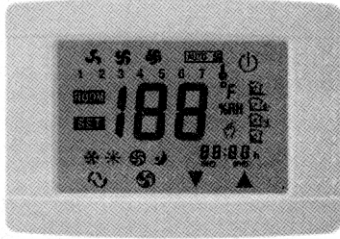# TST 1-300 Series Touch Screen Room Thermostat

1.General

TST 1-300 series Touch Screen Room Thermostat, with multi, updated and computerized functions, detects different temp between ambient and setting temperature using precise NTC sensor(internal only) to adjust Heating and Cooling.

Hence, it keeps the room at comfortable and constant temp.

It could be programmable and non-programmable

2.Technical data

2-1. Power Supply: 220/110/24VAC(optional) ± 10%, 50/60Hz
2-2. Consumption: <1.5W
2-3. Load Current: 1A(0.6A)
2-4. Accuracy: ±1^{0}C
2-5. Set-point Range: 10.0^{0}C - 30.0^{0}C
2-6. Timing Error: <1%
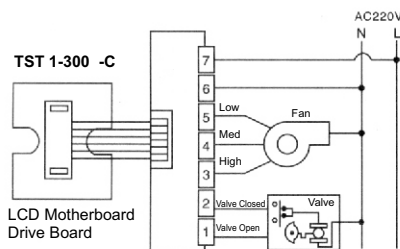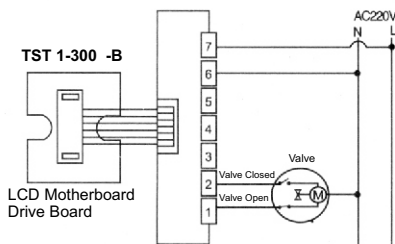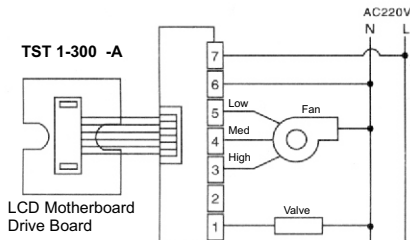2-8. Output Consumption: <200 W

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3. Warning

WARNING:
RISK OF ELECTRICAL SHOCK.
Disconnect power supply before making electrical connection. Contact with components carrying hazardous voltage can cause electrical shock and may result in severe personal injury or death.

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4. Wiring
(please contact us for other wirings)

5. Symbols

☺ Power on/off.

↻ Mode: press 0.3 seconds --- Heating/Cooling/Air flow only
Menu: Press 3 seconds---- Sleeping; Non-programmable & Programmable switchover; time and Programmable setting

❀ Fan Speed: auto, high, middle and low

▲ ▼ Temperature setting and mode adjusting.

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6. Menu & Setting
Programmable(optional) - Please refer to Non-programmable(manual):
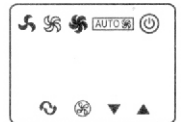
6-1. Temperature setting.
A. Programmable : When it is running, temperature and Power on/off can not be adjusted.
Please refer to 6-6.

B. Non-programmable(Manual): Can set it directly through ▲▼ when in standby mode.
(LCD screen shows " " 🔥 " " on the top right corner)

6-2.Fan speed setting
Fan speed: AutoHighMedLow
Under auto fan mode, thermostat could adjust fan speed automatically according to comparing diff. Temp. between room and set point.

6-3.Heating/Cooling/Air Flow Setting
Touch mode key: Heating/Cooling/Air Flow changeover. When it is Air Flow, valve closes, and fan coil supplies air.

6-4.Sleeping Setting
Touch Function key " ↻ " for 3 seconds to switch to Sleeping and when the " ★ " is flickering, please press ▲ for confirm and ▼ for cancel.

6-5.Programable& Non-programmable switchover
Touch Function key " ↻ " for 3 seconds to switch to Non-programmable (manual).
When the " 🔥 " is flickering, please touch ▲ for confirm and ▼ for cancel.

6-6.Programmable Setting (optional)
The steps of setting for one week are 18 (from 1 to 18, please refer to following instruction and chart), press " ↻ " for 3 seconds and then operate as following: Minute setting of Clock --- Hour setting of Clock---- Week setting --- Minute setting of turn-on (first time zone) --- Hour setting of turn-off (second time zone) --- Hour setting of turn-off zone) --- Temp.setting

Time zone	Mon.-Fri.		Sat.		Sun.	
	Time	Temp	Time	Temp	Time	Temp
🏠1	6:00	20℃	6:00	20℃	6:00	20℃
🏠2	8:00	15℃	8:00	20℃	8:00	20℃
🏠3	17:00	22℃	17:00	20℃	17:00	20℃
🏠	22:00	15℃	22:00	15℃	22:00	15℃

7. Turn-on automatically after the power back(optional)

While the system is in process, and the power cut off suddenly, it will memorize all the existent data and run according to previous data.
Timing ans Sleeping also hava this memory function.
This function is popular at Hotel, Power House etc.

8. Room Temperature Measurement

The installation position and the air convention, we need to adjust and measure the room temperature (show in thermostat), so that room temperature (show in thermostat) could be the same with the actual room temperature as much as possible.

During Turn-off, touch the "↻" for 3 sec.,

▲ room temperature up
▼ room temperature down

Adjust the temperature you want, and then confirm by turn-on.

9. Keys and Function of Remote Controller (optional).

" Mode " - Heating/Cooling Change-over
" UP " - Temp Up "+"
" Down " - Temp Down "-"
" Fan " - Fan Speed
" Sleeping " - Sleeping Function
" Timing " - Timing Setting
" Saving " - Energy-Saving
" Super " - High strong fan speed
" Power " - Turn-on/off

⚠ **IMPORTANT:**
PLEASE ARRANGE THE PROFESSIONAL TECHNICIAN TO INSTALL THIS PRODUCT ACCORDING TO INSTALLATION DRAWINGS AND INSTRUCTION.

10.Troubleshooting

Please make sure again if the wiring connection of L and N Line are installed correctly and the mode of heating and cooling match with setting requested.

Normal Problems	Reason and Solution
No Response while power is on	*Please check if the power and connecting of L Line and N Line is appropriate connected. * Please check if the Turn-on/off key is working *During installation, have the LCD driver placed first before placing the Power Drive *Do the check the connection lines on LCD Driver to Power Driver
LCD Error	The back cover is anamorphic while installing. Please release one or two fasten screws
Normal Display but no output	The line connected with LCD Driver and Power Driver is broken. Please have the LCD Driver replace and the Power Driver.

Remote Controller is out of control	Please have the batteries checked Replace the remote controller unit
The temperature displays incorrectly	Please adjust the temperature through pressing the keys on board

11. Warranty

We offer the warranty of 12 months, from the sales day.
If it is not the quality problems, or beyond the warranty period, we will charge for the after-sale service.