



**AUCKLAND**

temperzone Ltd  
Phone 0-9-279 5250  
Fax 0-9-275 5637

**SYDNEY**

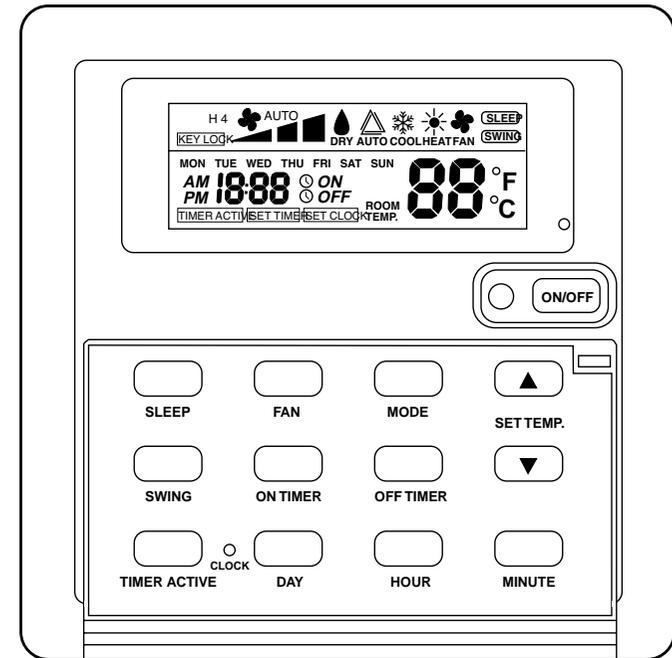
temperzone australia Pty Ltd  
Phone (02) 8822 - 5700  
Fax (02) 8822 - 5711

**SINGAPORE**

Phone SNG 6733 - 4292  
Fax SNG 6235 - 7180



**TTS-11 Thermostat**



**USER'S OPERATING INSTRUCTIONS**

Your local Service Agent is :



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### Display of 'LO' or 'HI'

Room temperature out of range, ie below 8°C or above 40°C. The air conditioner will operate as normal. As the temperature gets closer to the preset temperature the correct room temperature will be displayed.

### Keypad Will Not Respond

Check the display to see if 'KEY LOCK' is displayed.  
Refer to page 7 for unlocking procedure.

### Remote Control Doesn't Operate

1. Check the batteries in the remote control aren't flat.
2. The infra red remote control must be pointed directly at the TTS-11 Wall Thermostat plaque in order for its signal to be received.
3. If there is no light or beep from the wall plaque when the remote controls buttons are pressed, consult your installer to ensure the wall plaque has been set up correctly for remote control use.

## Troubleshooting

### Air Conditioner Doesn't Operate

1. Check there is power to the air conditioner. There is no power if the TTS-11's screen is blank.
2. Check the TTS-11 is on, i.e. the yellow On/Off light is lit.
3. Check if 'TIMER ACTIVE' is displayed. If so, check that you are in the 'switch on' period, or alter the timer settings (refer page 6).

### Reduced Cooling or Heating

1. Check the TTS-11 is not in the SLEEP mode (refer page 7).
2. Check to see if the air filter (if any) requires cleaning.
4. Check if any doors or windows are open.
3. Check that there are no obstacles in front of the Outdoor unit.

### No Cooling or Heating

Check that the correct operating mode has been selected (Auto, Cool, Heat). The preset temperature may have been set too high or too low. If the set temperature appears okay, call for service.

### Timer is Not Correctly Triggered

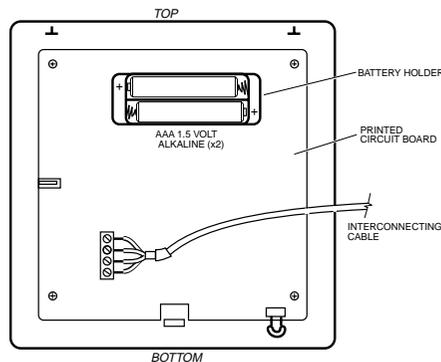
Check the clock is set to the right time (daylight saving?) and the timer has been correctly programmed.

### Loss of Settings

If the TTS-11 fails to retain the preset temperature and timer settings when the power supply is off then check the battery to see if it needs replacing. If the battery is flat or missing, the LCD display will still operate, however the letters 'OP' appear briefly (1-2 seconds) when the controller is powered on. When the batteries are low, the time settings default to: *Monday, 12am, Cool cycle, 25°C setpoint and Low fan speed.*

Note: If the controller is connected to the power via an external time clock where the power is disconnected frequently (e.g. daily) then the backup battery will have a reduced life.

The battery is located at the rear of the TTS-11. Separate the thermostat body from the wall mounting plate by inserting the tip of a small flat screwdriver in the slot at the bottom centre of the thermostat body. Press vertically up (gently) against the holding catch. This will disengage the bottom of the thermostat body from the wall mounting plate and allow it to be lifted free. Remove and check the batteries. If necessary, replace with two AAA 1.5V batteries, preferably Energiser®.

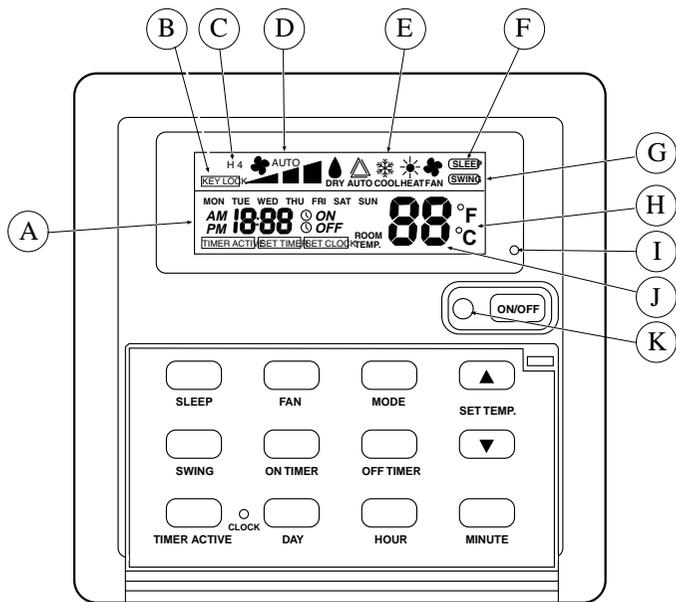


## Introduction

Your **temperzone** air conditioner is supplied with a TTS-11 Wall Thermostat. This thermostat has been designed to maintain a high level of comfort for room occupants. Emphasis has been placed on providing controls that are easy to use — despite the sophisticated microprocessor system that runs it. Use of the Auto and Timer function settings allows you to "set it and forget it".

## Features Summary

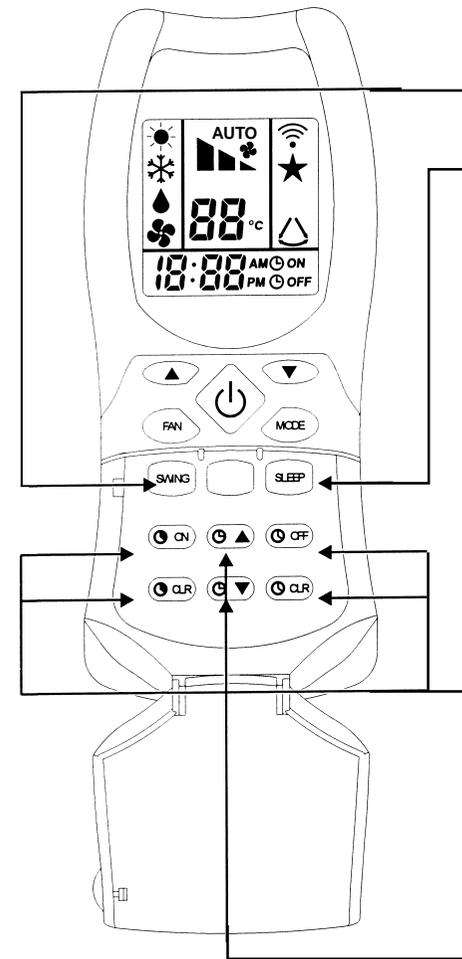
- Cool / Dry / Fan modes.
- Heat / Auto modes (Reverse Cycle systems only).
- Auto / High / Medium / Low fan speed selection.
- Temperature setting range from 16°C – 30°C .
- LED to indicate status of the unit (Power On/Off).
- Room temperature display.
- Real time clock.
- 7 days programmable [Start/Stop] timer that programs the unit to two start/stop sessions per day. The timer can also be set for a single regular session time over an entire 7 day period.
- Bypass function enables user to bypass the on/off button and any user programmed times for immediate operation of the air conditioner.
- Battery backup. In the event of a power failure a backup battery will maintain the real time clock and the integrity of the control's data. When power is resumed (returned/switched on again), the unit will automatically restart using the last settings.
- Key Lock function prevents unauthorised personnel from changing the settings of the Wall Thermostat.
- Sleep function.
- Air swing function.
- Infra Red remote controller (option)



## Display

- A [Current time, Start/Stop Time] Display  
Displays the current time as well as the start & stop time programmed.
- B [Key Lock] Display  
Indicates when the Key Lock function is activated.
- C [Session / Bypass] Display  
Indicates session number when setting Timer (1, 2 or 3), or number of hours of operation when setting Bypass operation (H1, H2 or H4).
- D [Fan Speed] Display  
Displays the fan speed setting [Auto/High/Medium/Low].
- E [Operation Mode] Display  
Displays the current mode of operation.
- F [Sleep] Display  
Displays the sleep/energy saving status.
- G [Swing] Display  
Displays the air swing status (NB not applicable to ducted systems).
- H [°C] Display  
Displays the temperature in degrees Celcius.
- I [On/Off status] LED Display  
Displays the status of operation.
- J [Set temperature or room temperature] Display  
Displays the set or room temperature.
- K Infra Red Receiver for optional remote control.

Flip open the door on the remote control to reveal additional function buttons.



**SWING**  
Press to activate or deactivate the air louvre sweep function.  
(NB This function is only applicable to systems with underceiling indoor units).

**SLEEP**  
Press to activate the energy saving Sleep function which automatically adjusts the temperature to provide a more comfortable sleep, ie for use in bedrooms.

**ON TIMER**  
The timer allows the user to confine air conditioner operation to a selected duration over a single 24 hour period.  
Press **ON** to activate ON TIMER and **CLR** to deactivate it.

The first press of **ON** button will show the previous setting and the ON symbol will flash.  
Further pressing of the button will advance the time setting in 30 minute intervals.

**OFF TIMER**  
Press **OFF** to turn the air conditioner OFF when the current status is ON, or to set a future OFF time (within 24 hour period).  
Button operation is similar to the ON TIMER instructions above. If an OFF time is not set the system will run continuously, or until the ON/OFF button is pressed.

**CLOCK**  
Press **▲** or **▼** for 2 seconds to activate. The current clock setting will decrease/increase at 1 minute intervals on each press.  
The speed of interval updating increases after 4 seconds of continuous key press. It will update at high speed after 6 seconds of continuous key press.

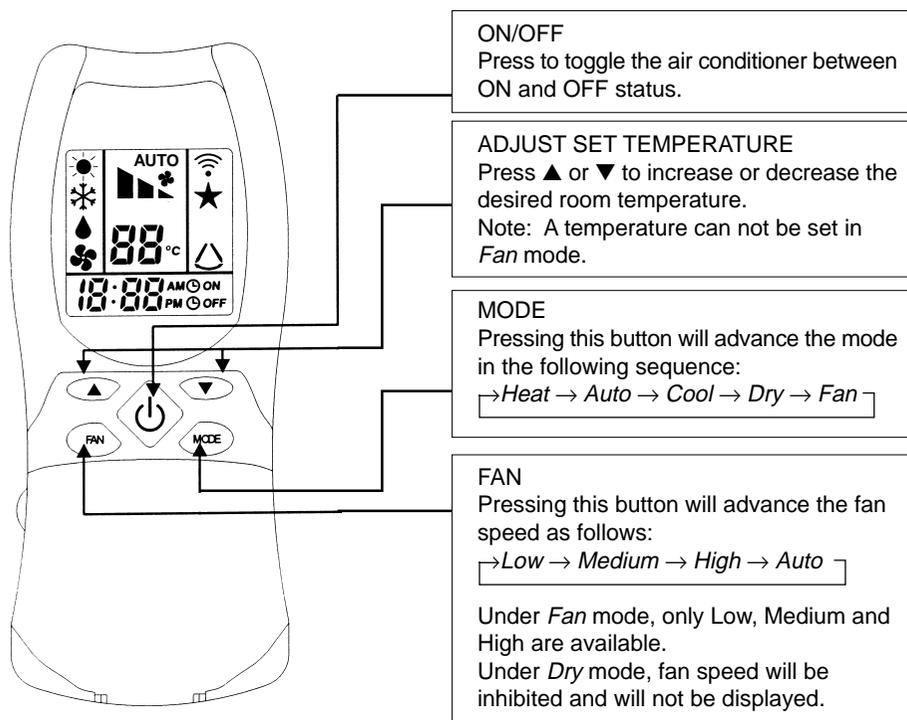
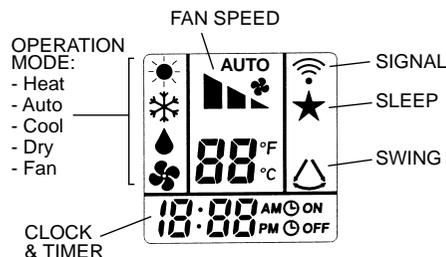
Note: Use of the Remote Control's timer functions overrides the wall plaque's own timer settings, specifically the one regular session per week (refer page 6).

## Remote Control (option)

### Operation

A light will blink and a beep will sound when the wall plaque receives a signal from the hand held Infra Red Remote Control.

The IR Remote Control must be pointed directly at the TTS-11 Wall Thermostat plaque in order for its signal to be received.



## Operation

### On/Off

#### Starting Operation

When the unit is turned off, press the [ON/OFF] button. The operation LED lights and the system is turned on.

#### Bypass Operation

To activate the air conditioner outside any pre-set times, follow the instructions inside the flap cover (or refer page 7).

#### Stopping Operation

When the unit is turned on, press the [ON/OFF] button. The operation LED light is extinguished and the system is turned off.

### Room Temperature Adjustment

Normally the display will show the current room temperature (not the preset temperature). Set the temperature of your choice by pressing the Set Temp. buttons, [▲] or [▼].

Each push will change the temperature by 1°C.

Temperature can be set within the range 16°C – 30°C.

During Fan mode the temperature can not be set.

### Mode Selection

Press the [MODE] button to switch operation between Cool, Heat, Auto, Dry and Fan. The display shows which mode is selected at any one time.

*Cool*– If the room temperature is too warm, the air conditioner cools the room until it reaches the set temperature.

*Dry*– If the atmosphere in the room is very humid or damp, use this mode to both reduce the humidity and cool until the room is near the set temperature.

*Heat*– If the room temperature is too cool, the air conditioner warms the room until it reaches the set temperature (Reverse Cycle systems only).

*Auto*– The air conditioner will automatically cool or heat the room until it reaches the set temperature (Reverse Cycle systems only).

*Fan*– If the atmosphere in the room is stale, use this mode to circulate the air in the room, without changing the overall room temperature.

### Fan Speed Selection

Press [FAN] button to select Auto, High, Medium or Low speed.

*Auto*– The TTS-11 will automatically select the most suitable fan speed to maintain the set temperature.

*High, Medium, Low*– A choice of three manually selected fan speeds are available.

## Operation (cont'd)

### Swing Activation

This function is only applicable to systems with underceiling indoor units.  
Press [SWING] button to activate the air louvre sweep function, or to set the louvre at a preferred angle.

### Time Functions

#### *Setting Clock*

- a) Press the small recessed [CLOCK] button once to enter the Clock set mode.
- b) Adjust the time and day settings by using the following buttons:
  - [DAY] button – changes the set day between Mon, Tue Wed, Thu, Fri, Sat & Sun.
  - [HOUR] button – changes the set hour (12 hour AM/PM clock).
  - [MINUTE] button – changes the set minute.
- c) Press the small recessed [CLOCK] button once to exit the Clock set mode.

#### *Setting 7-Day Timer*

The timer can be set to turn on and off, two sessions per day, and one regular session per week.

- a) Press the [ON TIMER] or [OFF TIMER] button once to set the timer mode for the first session. The session number is shown on the display.
- b) Adjust the start or finish time and day by pressing the [DAY], [HOUR] or [MINUTE] buttons.
- c) If you don't want the air conditioner to operate on any particular day (e.g. Sat. and Sun.), set the day using the [DAY] button and use the [HOUR] button to set the time to show ' -- : -- '.
- d) Press the [ON TIMER] or [OFF TIMER] button a second time to set the timer mode for the second session. Repeat previous two steps to set day/time.
- e) Press the [ON TIMER] or [OFF TIMER] button a third time to set the timer mode for a single common session time and 7 days-a-week operation.  
Repeat previous two steps (c) and (d) to set the time.

Note: If sessions overlap then the system will run from the first ON time to the first OFF time and will not restart until the next day, without manual intervention.

#### *Timer Activation*

If 7-day timer is set, the words 'TIMER ACTIVE' are displayed.

To de-activate the timer setting, press the [TIMER ACTIVE] button until the words 'Timer Active' are no longer displayed.

To resume the timer setting, press the [TIMER ACTIVE] button until the word 'TIMER ACTIVE' is displayed.

Note: When 'TIMER ACTIVE' is displayed, the LED light will flash when waiting for the next start time.

#### *External Time Clock*

If the TTS-11 is to be connected to an external time clock, ensure the 7-day timer is not activated, i.e. 'TIMER ACTIVE' is **not** displayed.

Note: The TTS-11's battery life is reduced when using an external time clock.

### Sleep Activation

Press [SLEEP] button to activate the Sleep option. This option saves energy by altering the set temperature over a two hour period.

Example Uses:

In Summer, before going to bed at night with the Cool mode set, pressing the [SLEEP] button gradually raises the set temperature by 2 degrees to compensate for a person's lower body metabolism when sleeping.

In Winter, with the Heat mode set, pressing the [SLEEP] button gradually lowers the set temperature by 2 degrees to compensate for heavier Winter bedding.

The Sleep option is only available for Cool, Heat and Auto modes.

### Key Lock

This feature protects the control from being tampered with by children or unauthorised persons.

To activate, press the [MINUTE] button three times quickly. 'Key Lock' will appear on the display. When the Key Lock is active the [ON/OFF] and [FAN] buttons can still be used. To cancel the 'Key Lock' function press the [MINUTE] button three times again. 'Key Lock' will no longer be displayed.

### Bypass

This feature provides a quick 'on demand' alternative to the 'pre-programmed' type of use. Bypass operation permits the user to start the air conditioner immediately, bypassing the ON/OFF button and any programmed session times.

Bypass is initiated by pushing the [HOUR] button:

- once for 1 hour operation
- twice for 2 hour operation
- three times for 4 hour operation
- four times to cancel.

The display shows how many hours have been selected, ie *H1*, *H2* or *H4*.

To terminate *H1*, *H2* or *H4* before the chosen time has finished, press the [HOUR] button until *H4* disappears. The 'on demand' timer is now turned off and so is the air conditioner.

During Bypass operation the LED light will flash.