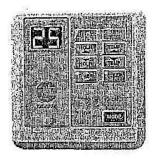


### **Owner & Installation Manual**

# Remote Control Digital Thermostat







ACYSTAT007A (WIRED CONTROL, COOLING ONLY)
ACYSTAT008B (WIRELESS CONTROL, COOLING ONLY)
ACYSTAT009A (WIRED CONTROL, COOLING & HEATING)
ACYSTAT010B (WIRELESS CONTROL, COOLING & HEATING)



# General System Appearance

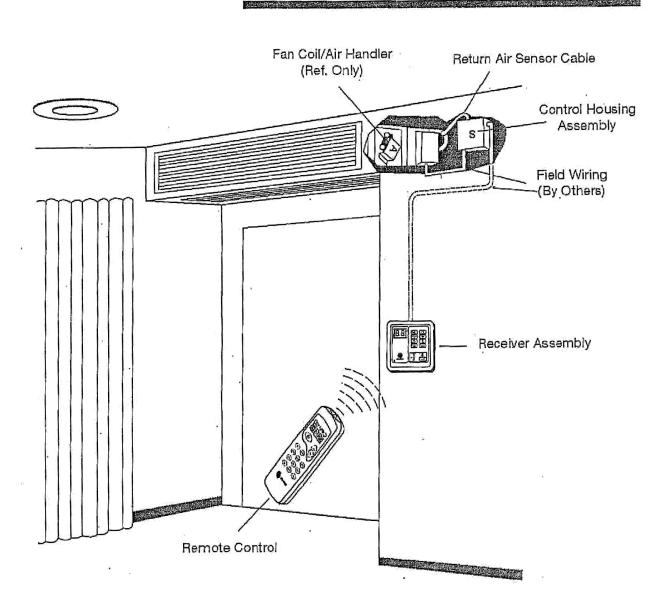


Figure 1



# **Contents**

General System Appearance	2
General Information	4
Wireless Remote Control	6
Display Unit and Receiver Board	
(Wall Mounted)	7
Hand Held Remote Control	9
Wired Control	13
Display Unit (Wall Mounted)	14
System Operation	16
Installation	17
Remote Control Installation	19
Electrical Installation	21
Wiring Diagram	22

是这个时间的现在分词是是一种的对抗的一种的,是是一种的一种的对抗的一种的对抗的,但是是一种的一种的一种,这种一种的一种的一种的对抗的



### **General Information**

### General Information

Congratulations on your selection of Trane
Digital Thermostat Control. These systems have
been carefully designed and manufactured
under strict Trane Worldwide Quality Standards.
Each model of Digital Thermostat includes all of
those operating features most desired by today's
discriminating consumer and latest state-ofthe-art electronic technology in design and
materials.

Installation procedures should be performed in the sequence that they appear in this manual. Additionally, the services be employed, through a maintenance contract with a reputable service company.

Also, This manual is a user guide to operate and maintain the digital thermostat.

Please read this manually carefully before installing and using this thermostat.

### About This Manual

Cautions appear at appropriate places in this instruction manual. Your personal safety and the proper operation of this machine require that you follow them carefully. The Trane Company assumes no liability for inappropriate use of the unit.

### About The Unit

The Trane ACYSTAT is typically used with room air conditioning systems using concealed type indoor units. These series offer digital thermostat control with LCD wireless remote or wired control. Provide convenient and precise control of both Cooling only and Cooling/Heating concealed type chilled water fan coil or direct expansion air handling units.

The typical system wiring schematics are generic by necessity and do not apply to all possible indoor unit configurations and control requirements. If you have any question relating to proper application or installation of these thermostats, please contact your nearest Trane Dealer.

### Reception

On arrival, inspect the unit before signing the delivery note. Specify any damage of the unit on the delivery note, and send a registered letter of protest to the last carrier of the goods within 72 hours of delivery. Notify the dealer at the same time.

The unit should be totally inspected within 7 days of delivery. If any concealed damage is discovered, send a registered letter of protest to the carrier within 7 days of delivery and notify the dealer.

### Warning

Warnings are provided at appropriate places in this manual to indicate to installers, operators and service personnel of potentially hazardous situations which, if not avoided, COULD result in death or serious injury.

### Caution

Cautions are provided at appropriate places in this manual to indicate to installers, operators, and service personnel of potentially hazardous situations which, if not avoided, MAY result in minor or moderate injury or malfunction of the unit.

Your personal safety and the proper operation of this unit require that you follow them carefully. The Trane Company assumes no liability for installations or servicing performed by unqualified personnel.



### **General Information**

### Warranty

Warranty is based on the general terms and conditions by country. The warranty is void if the equipment is modified or repaired without the written approval of The Trane Company, if the operating limits are exceeded or if the control system or the electrical wiring is modified.

Damage due to misuse, lack of maintenance or failure to comply with the manufacturer's instructions, is not covered by the warranty obligation. If the user does not follow the instructions in the Owner Manual, it may entail cancellation of warranty and liabilities by The Trane Company.

### Important

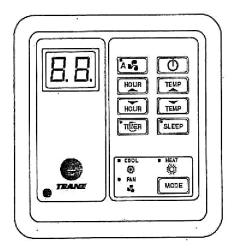
These instructions do not cover all variations in systems, nor do they provide for every possible contingency to be met. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to your authorized Trane dealer.



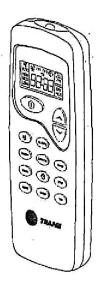
### Wireless Remote Control

There are three major components of the Wireless Remote Control system as follows:

- (1) Control Box Assembly
- (2) Display Unit and Receiver Board (wall mounted)
- (3) Hand Held Remote Controller



Display Unit and Receiver Board Figure 2



Hand Held Remote Controller Figure 3



# Display Unit and Receiver Board (Wall Mounted)

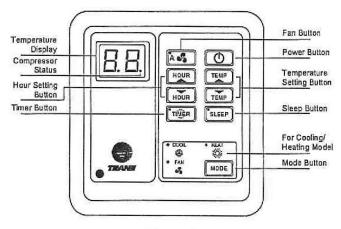
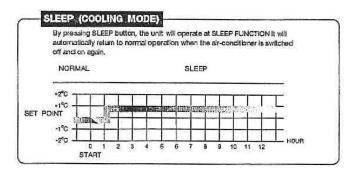
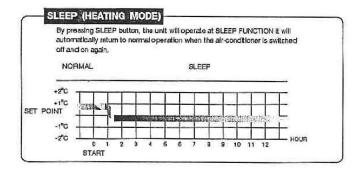


Figure 4





### 1. Fan

Three fan speeds (high, medium, low) can be selected. The fan speed can also be put in AUTO fan mode. It will change automatically from high to medium and low according to the difference between room and setting temperature.

### 2. Power on/off

Press POWER button to turn the air conditioner on and off it will operate according to the last program setting.

Temperature Setting
 The temperature can be set in the range of 15°C- 30°C.

### 4. Sleep

The facility to raise up the setting temperature 1°C (in Cool mode) for the purpose of comfort and energy saving.

### 5. Operating Mode

Press MODE button to select system operating modes The air conditioner can be put in 2 modes (COOL and FAN) for cooling only model. And 3 modes COOL, HEAT and FAN) for cooling heating model.

### 6. Compressor Status

When lit, the dot LED after the second digit of the 7 segment display indicates the compressor is on.

#### 7. Timer

The air conditioner can be timed to switch "on" or "off" up to 15 hours in advance.

TIMER OFF To set timer off press
TIMER button when air conditioning is
on, TIME LED will blink and show last
hour time setting. Press HOUR ▲ or
HOUR ▼ to increase or decrease hour
digit (between 1 to 15 hours).

TIMER ON Use same procedure to set timer off except press TIMER button when air conditioner is off.

### 8. Toggle °C/ °F

By Pressing TEMP+ and TEMP- at the same time for 5 seconds the display can be changed from °C to °F and °F to °C.



# Display Unit and Receiver Board (Wall Mounted)

#### Notes:

- If TIMER LED is off, HOUR ▲ and HOUR ▼ button do not function.
- If TIMER LED is on, pressing HOUR ▲ and HOUR ▼ button will change display time setting to show hour setting. New time will be displayed on blinking 2 digit LED display. Pressing HOUR ▲ and HOUR ▼ will change display to new time setting.
- If the air conditioner looses power, on/off timer settings are lost and will need to be re-programmed.
- If POWER button is pressed during setting the timer, setting of timer on/off will be cancelled and remote will turn on/off air conditioner as normal.
- If TIMER button is pressed again during setting of time (TIMER LED is lit), setting time will be cancelled.

### Display Unit

The following LED's display system mode.

- An LED in the fan button lights when fan speed control is in AUTO mode.
- A SLEEP LED lights when sleep mode is selected.
- A TIMER LED lights when system operation is controlled by the timer.

# Temperature Display (2 digit 7 Segment LED's)

### Temperature

- 1. Room Temperature.
- 2. Temperature Setting (while blinking).

### System Status

- 1. "RE" Temperature sensor alarm.
- 2. "HF" Heating system failure.
- 3. "Fr" Evaporator coil frozen.
- 4. "FE" Freeze sensor alarm.

### Fan Speed/Mode

- 1. "F3" High Speed.
- 2. "F2" Medium Speed.
- 3. "F1" Low Speed.
- 4. "FA" Fan speed in Automatic mode.



# Infrared Remote Control Name and function of buttons

- Infrared signal transmitter
   Transmits the signal to indoor unit.
- MODE Button
   Press this button to select system operating modes. In cooling only system, a mode is selected in a sequence as FAN, COOL, DRY and back to FAN. In cooling and heating system, a mode is selected in a sequence as FAN, COOL, DRY, HEAT, AUTO and back to FAN.
- SWEEP Button
   Press this button to activate sweep motor to distribute air flow (not available in all models).
- LOUVER Button
   Press this button to adjust the direction of air flow.
- POWER Button
   Press this button to start operation.

   Press the button again to stop operation.
- 6. Temperature Setting Button TEMP ▲ :Press this button to increase the set temperature. TEMP ▼ :Press this button to decrease the set temperature.
- 7. FAN Button
  Press this button to select fan speed.
- SLEEP Button
   Press this button to control temperature while sleeping.
- CLOCK Button
   This button is used to set the clock.
   If button is pressed during 18.00 hrs.
   to 6.00 hrs., it will turn on the back light.
   If there is no button pressed within 3 seconds, the back light will be turn off.

   10.STOP Button

Press this button to set the OFF timer.

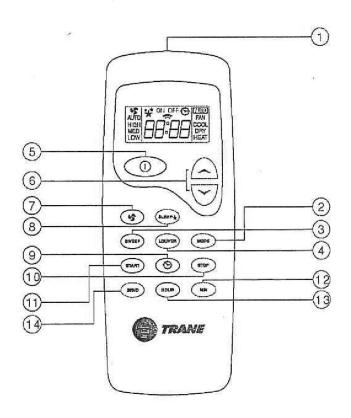
11.START Button

Press this button to set the ON timer.

· 1500-600-1996.0.1元(122-14年)(122-14年)(122-14年)(122-14年)(122-14年)(122-14年)(122-14年)(122-14年)(122-14年)(122-14年)

- 12.MIN Button
  This button is used to set the minute.
- 13.HOUR Button
  This button is used to set the hour.
- 14.SEND Button

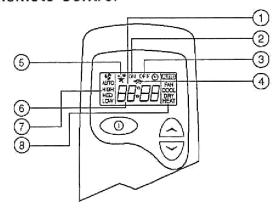
  This button is used to confirm the programming on the remote unit to the fan coil unit.



Battery: Two AAA batteries are used in this remote control unit.



### Indicators on Infrared Remote Control



- Clock
   Displays the current time when the handset is under POWER OFF status.
- Timer START
   The time set for timer on operation is indicated.
- Timer STOP
   The time set for timer off operation is indicated.
- Transmission Indicator
   This transmission indicator lights when remote control transmits signals to the indoor unit.
- SLEEP Mode
   Displayed by pressing the SLEEP button.

   Press the SLEEP button again to disappear.
- Temperature Setting
   Displays the temperature setting (15°C to 30°C)
   When the handset is under POWER ON status.
   Note: No temperature setting display when FAN Mode is selected.
- Fan Speed
   Displays the selected fan speed. Fan speed level, low (LOW), medium (MED), high (HIGH), auto (AUTO) will be indicated.
- System Mode
   Displays the current operation mode. In cooling only (FAN, COOL or DRY). In cooling and heating system (FAN, COOL, DRY or HEAT).

### System Operating Selection

### FAN Only System Operation

- Press POWER button (the display panel shows the previous settings).
- Press MODE button to select the system operating mode, FAN mode will be shown on the display.
- Press FAN button to select any fan speed.
   The FAN display will show & LOW, & MED,
   HIGH or AUTO according to fan speed selected low, medium, high and auto.

### **COOLING System Operation**

- Press POWER button (the display panel shows the previous settings).
- Press MODE button to select the COOL operating mode, "COOL" mode will be shown on the display.
- Press either TEMP ▲ or TEMP ♥ button to set the desired room temperature.
   Temperature set range is 15°C to 30°C.
- Press FAN button to select any fan speed.
   The FAN display will show & LOW, & MED,
   HIGH or AUTO according to fan speed selected low, medium, high and auto.

### DRY System Operation

- Press POWER button (the display panel shows the previous settings).
- Press MODE button to select the DRY operating mode, "DRY" mode will be shown on the display.
- Press either TEMP ▲ or TEMP ▼ button to get the desired room temperature setting at the indication. Temperature set range is 15°C to 30°C.
- The system automatically cycles the compressor and fan (low speed) to remove moisture from the air without overcooling the room.

Note: Fan speed cannot be changed when DRY Mode is selected.



PROPERTY OF THE SECRETARY OF THE PROPERTY OF THE

# HEATING System Operation (Heating/Cooling Models)

- Press POWER button (the display panel shows the previous settings).
- Press MODE button to select the HEAT operating mode, "HEAT" mode will be shown on the display.
- Press either TEMP ▲ or TEMP ♥ button to set the desired room temperature.
   Temperature set range is 15°C to 30°C.
- Press FAN button to select any fan speed.
   The FAN display will show & LOW, & MED,
   HIGH or AUTO according to fan speed selected low, medium, high and auto.
- The system will automatically switch between cooling mode and heating mode to maintain desired temperature setting.

# AUTO System Operation (Heating/Cooling Models)

- Press POWER button (the display panel shows the previous settings).
- Press MODE button to select the AUTO operating mode, "AUTO" mode will be shown on the display.
- Press either TEMP ▲ or TEMP ▼ button to set the desired room temperature.
   Temperature set range is 15°C to 30°C.
- Press FAN display will show & LOW, & MED,
   HIGH or AUTO according to fan speed selected low, medium, high and auto.

### Setting Clock

To set clock, press CLOCK button until CLOCK symbol is blinking.

The current time value can be set by pressing HOUR or MIN (minute) button.

Note: During the clock symbol is blinking (the time value has not been changed), if there are no other buttons pressed within 10 seconds, the LCD display will return to show setting temperature when the handset is under POWER ON status, or to show current time value when the handset is under POWER OFF status.

### **Timer Operation**

Once you select the timer operation, the settings are saved in the remote control. Thereafter, the air conditioner will start operating under the same conditions when simply push the POWER button of the remote control.

### **Setting STOP timer**

You can set the STOP timer to stop the unit automatically at any desired time up to 24 hour ahead

- Press POWER button to turn on the unit and the display panel show the previous condition.
- Press STOP button once. On the display panel, the last set time of the STOP timer will be blinking.
- Press HOŪR or MIN buttons to change the time (pass this step, if no time change is required).
- Press SEND or STOP buttons to transmit the signal to the air conditioner. The set time will stop blinking.
- The unit will stop automatically at set time of OFF timer.
- To cancel the STOP timer, press STOP button again.

#### Setting START timer

You can set the START timer to start the unit automatically at any desired time up to 24 hour ahead.

- Press POWER button to turn on the unit, and the display panel shows the previous conditions.
- Press START button once. On the display panel, the last set time of the START timer will be blinking.
- Press HOUR or MIN buttons to change the time (pass this step, if no time change is required).
- Press SEND or START buttons to transmit the signal to the air conditioner. The set time will stop blinking.
- The unit is now standby for starting automatically at set time of START timer.
- To cancel the START timer, press START button again.

ACYSTAT-IOM-EN 1€ 1/18

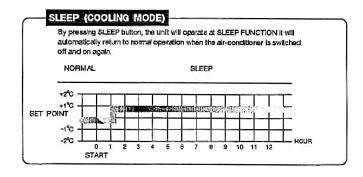


"我们的不是我们的一种,我们就是这个人的,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是

Note: In case of power failure, the START/STOP timer will be automatically cancelled as there is no electricity in the air-conditioner. (But the set time on the remote unit is still displayed due to the batteries). If any button or the remote unit is pressed when the electricity is back to normal, this feature will be reactivated.

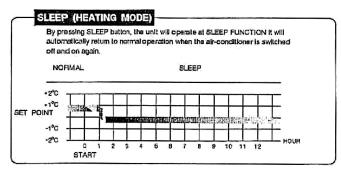
#### **SLEEP Mode**

This feature automatically adjusts the temperature setting to provide increased comfort and save energy (The SLEEP display on LCD will disappear after 1 hour).



### **COOLING Mode**

 Press SLEEP button, one hour after pressing, the air conditioner will automatically raise the set temperature by 1°C.

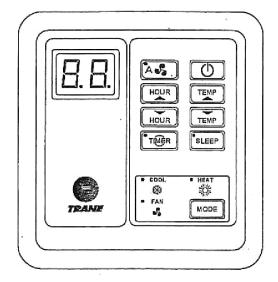


### **HEATING Mode**

 Press SLEEP button, one hour after pressing, the air conditioner will automatically reduce the set temperature by 1°C.



## Wired Control



Display Unit Figure 6

There are two major components of the wired control as follows

- (1) Control Housing Assembly
- (2) Display unit (wall mounted)



### Display Unit (Wall Mounted)

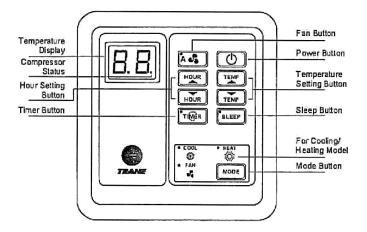
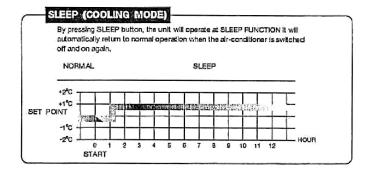
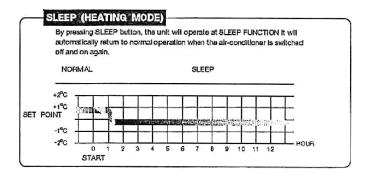


Figure 7





#### 1. Fan

Three fan speeds (high, medium, low) can be selected. The fan speed can also be put in AUTO fan mode. It will change automatically from high to medium and low according to the difference between room and setting temperature.

#### 2. Power on/off

Press POWER button to turn the air conditioner on and off it will operate according to the last program setting.

#### 3. Temperature Setting

The temperature can be set in the range of 15°C-30°C.

### 4. Sleep

The facility to raise up the setting temperature 1°C (in Cool mode) for the purpose of comfort and energy saving.

### 5. Operating Mode

Press MODE button to select system operating modes The air conditioner can be put in 2 modes (COOL and FAN) for cooling only model. And 3 modes COOL, HEAT and FAN) for cooling heating model.

#### 6. Compressor Status

When lit, the dot LED after the second digit of the 7 segment display indicates the compressor is on.

#### 7. Timer

The air conditioner can be timed to switch 'on' or 'off' up to 15 hours in advance.

TIMER OFF To set timer off press
TIMER button when air conditioning is
on, TIME LED will blink and show last
hour time setting. Press HOUR ▲ or
HOUR ▼ to increase or decrease hour
digit (between 1 to 15 hours).

TIMER ON Use same procedure to set timer off except press TIMER button when air conditioner is off.

#### 8. Toggle °C/°F

By Pressing TEMP+ and TEMP- at the same time for 5 seconds the display can be changed from °C to °F and °F to °C.



### Display Unit (Wall Mounted)

### Note:

- If TIMER LED is off, HOUR ▲ and HOUR ▼ button do not function.
- If TIMER LED is on, pressing HOUR ▲ and HOUR ▼ button will change display time setting. New time will be displayed on blinking 2 digit LED display. Pressing HOUR ▲ and HOUR ▼ will change display to new time setting.
- If the air conditioner looses power, on/off timer settings are lost and will need to be re-programmed.
- If POWER button is pressed during setting if timer, setting of timer on/off will be cancelled and remote will turn on/off air conditioner as normal.
- If TIMER button is pressed again during setting of time (TIMER LED is lit), setting time will be cancelled.

### Display Unit

The following LED's display system mode.

- 1. An LED in the fan button lights when fan speed control is in AUTO mode.
- A SLEEP LED lights when sleep mode is selected.
- A TIMER LED lights when system operation is controlled by the timer.

# Temperature Display (2 digit 7 Segment LED's)

### Temperature

- 1. Room Temperature.
- 2. Temperature Setting (while blinking).

### System Status

- 1. "RE" Temperature sensor alarm.
- 2. "HF" Heating system failure.
- 3, "Fr" Evaporator coil frozen.
- 4. "FE" Freeze sensor alarm.

### Fan Speed/Mode

- 1, "F3" High Speed.
- 2. "F2" Medium Speed.
- 3. "F1" Low Speed.
- 4. "FA" Fan speed in Automatic mode.

ACYSTAT-IOM-EN 15.



### System Operation

### System Features

- Watchdog
   There is a circuit in the system to watch the operation of the microprocessor.
- Compressor Delay Protection
   There is a time delay for the compressor to restart.
- Compressor Minimum on Time
   Once the compressor starts to operate, it will
   not stop unless the compressor has operated
   for at least 24 seconds.
- Non-Volatile Memory (Auto Restart)
   After power interruption, the control will resume its operation with same setting parameters except those related to the time.
- Pre-heat/Post-heat (Heat Model)
   Prevents the fan coil from blowing a cold draught when the indoor coil tempera ture is low.
- Freeze Function (Optional)
   Stops the compressor if the indoor coil temperature is below 0°C.

### Operating Precautions

This system must be installed properly by a qualified installer and in accordance with installation instructions.

### Anti-Recycle Timer

- The control system has a built-in 3 minute anti-recycle timer which helps to preserve the life of system components.
- Anti-Recycle Timer will operate as circum stances occur during operation of unit;
  - Temperature setting is adjusted back and forth.
  - ON/OFF switch is turned ON and OFF.
  - · Room temperature reaches the set point.
  - · Power failure.

Any of the above conditions will prevent operation of the outdoor unit for approximately 3 minutes.

#### Freeze Protection

The system is protected against low indoor coil temperatures. Under certain conditions, the "COOL/DRY" LED will blink indicating the protective function has been activated. There is no need to adjust the system.



### Installation

# Power Supply - 220 VAC 1 Phase 50/60 Hz

ACYSTAT can be applied for MCD512-060

Maximum current ratings are as follows:

- Fan motor running current:
   5 amperes (inductive)
   (FH, FM, FL and F1 Terminals)
- Auxiliary and compressor control circuits current:
  - 10 Amperes (resistive)
  - 5 Amperes (inductive)
  - (C Terminals)

(H Terminals)

 Auxiliary and Heater control circuit current: (For Cooling/Heating Model)
 10 Amperes (resistive)
 5 Amperes (inductive)

### Control Box Assembly Location

The Control Box assembly may be located on any stable moisture-free surface adjacent to fan coil or air handler. It may be mounted in any orientation except with the housing cover inverted, However, the following caution and constraints must be observed when selecting the mounting location.

 The Control Box must not be located more than 2 meters from the location for mounting of the return air sensor. Please ensure that return air sensor cable is sufficiently long.

e Carlette wild had the carlette and the common companies and the carlette in the common industrial care and dependent

- The Control Box must be located such as it is accessible for future unscheduled inspection and that it does not hinder inspection and removal of return air filters or servicing of the fan coil or air handler.
- Location of the Control Box must be over 14-meter length of the cable assembly. That is sufficient to reach and attach to the wall mounted receiver.

### Attachment/Mounting Control Box

The Control Box attached to the mounting surface by installing a screw through each of 4 holes in the Control Box mounting flanges. The Control Box must not be mounted in the inverted position such as overhead ceiling.

### Mounting the Temperature Sensor

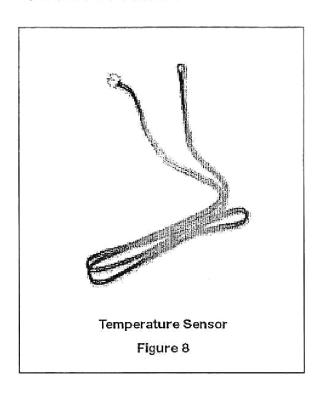
The return air sensor cable is factory installed inside the Control Box and is connected to main PCB. Remove the cover of Control Box, insert the sensor end through the wiring bushing. Pull the sensor cable until the maximum cable is outside of the Control Box.

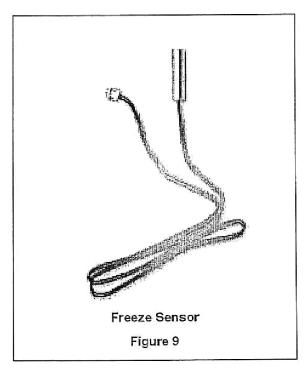


### Installation

### Locating the Temperature Sensor

Locate the return air sensor directly in the air returning to the fan coil or air handler. It should be located so as not to interfere with inspection or removal of return air filters or servicing and repair fan coil or air handler.





and the training protection of the protection of the protection of the Confidence of

### Locating the Freeze Sensor

Locate the freeze sensor close to either U bend tube.



### **Remote Control Installation**

### Location

Both of display unit and receiver can be installed within the maximum length cable of 15 meters.

- The display unit and receiver should be located on the wall approximately 150 centimeters above floor level and should be clearly visible from most locations in the conditioning space.
- Do not place the remote control near heat sources or exposed to the direct rays of the
- Do not place in a confined stream.

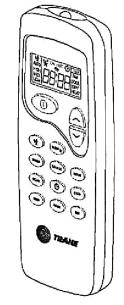
### Cable Routing

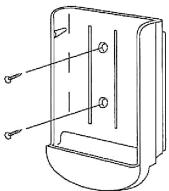
- Connect either terminal to connector P10 at the printed circuit board and the other to Display unit (wall mouth).
- The cable should be installed and routed in the area that not exposed to excessively hot temperature, moisture, sharp edges and moving surface.

Install the wireless remote control and wired control as follows:

# Locate and attach the wireless remote control and wired control as follows:

- Do not place the control and the remote control near heat sources or expose to the direct rays of the sun.
- Do not expose the control to the indoor unit's supply air stream.
- 3. Do not place in a confined space.
- 4. Attach the remote control holder as shown in Figure 10.

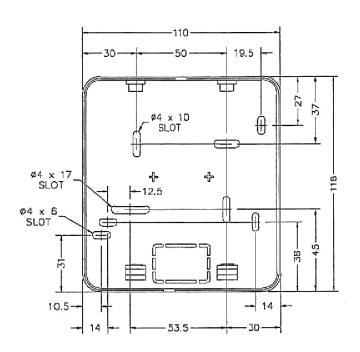




Wireless Remote Control
Figure 10

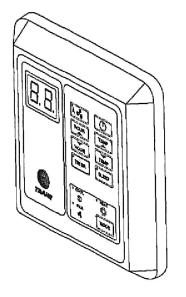


# **Remote Control Installation**

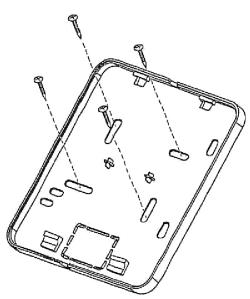


### Dimension

Figure 11



Remote Control



Mounting Bracket

Figure 12



### **Electrical Installation**

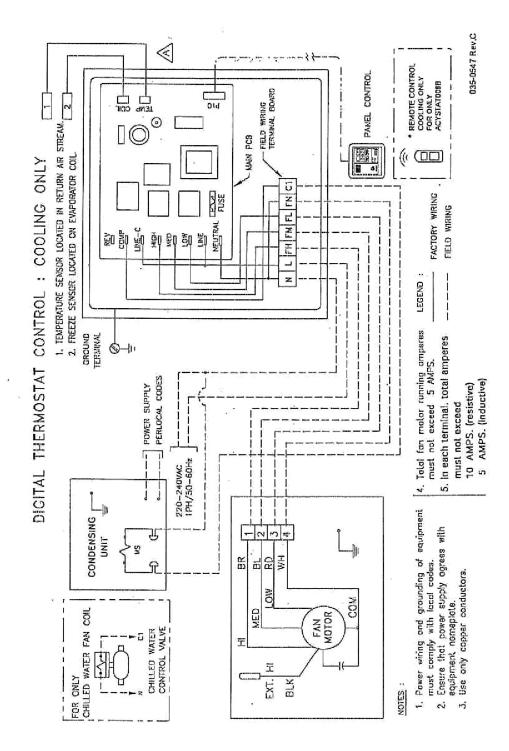
中国公司的公司,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,

All wiring and grounding must comply with local electrical codes.

- Disconnect both indoor and outdoor power supplies before servicing.
- Remove the cover of control box to access the terminal block.
- Connect the wire terminal to the terminal block. (Connection indicated on system wiring diagram).
- Make sure all connections are tight.
- After completing the connection, re-confirm them to be in accordance with the indoor unit, outdoor unit and system wiring diagram.

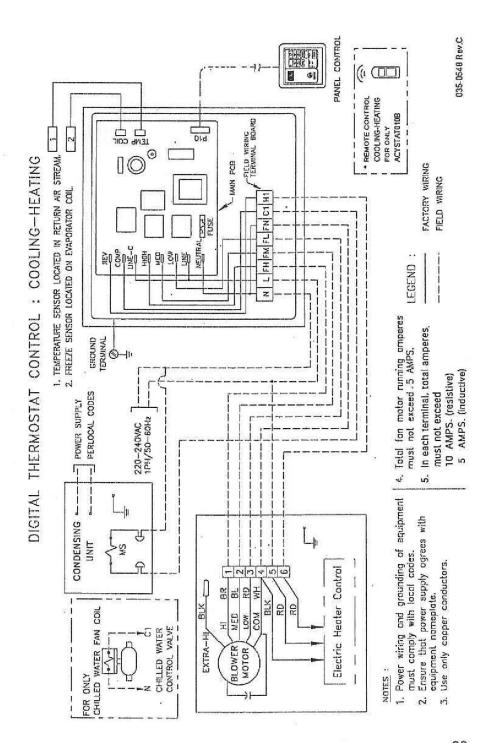


# Wiring Diagram





# Wiring Diagram



2	2.7 ACCESSORIES	S	
	Thermostat: Wir	Thermostat: Wireless infrared functioning to remotely control compressor and evaporator fan,	Committee
7	with the following features:	ng features:	Comply
	1. Compressor time delay.	ne delay.	Comply
	2. 24- hour time	2. 24- hour time control of system stop and start.	Comply
	3. Liquid crystal	3. Liquid crystal display indicating temperaure, set point temperature, time setting, operating	Comply
	mode and fan speed.	eed.	frdings
	4. Fan speed sele	4. Fan speed selection, including auto setting.	Comply
	Automatic reset	Automatic reset timer to prevent rapid cycling of compressor.	Comply
	Refrigerant Line	Refrigerant Line Kits: Soft annealed copper suction and liquid lines factory cleaned, dried,	By Contractor
	pressurised, and	pressurised, and sealed; factory insulated suction line with flared fittings at both ends.	



Trane Thailand 7th Floor, Ploenchit Center Building 2 Sukhumvit Road, Klongtoey Bangkok 10110

Amair Limited 35 Mu 8, Poochaosamingprai Road Samrong Tai, Samutorakem 10130 http://www.tranethailand.com An American Standard Company







บริษัท แอมแอร์ จำกัด	35 หมู่ 8 ณปู่เจ้าสนิงพราย ค.สำโจงใต้ 9 พระประแดง จ.สมุทาปราการ 10130
Stocking Location:	Bangkok. Thailand
Supersedes:	ACYSTAT-IOM-EN 0502
Literature Order Number:	ACYSTAT-IOM-EN 0703

Since The Trane Company has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.





# Project: JUMERIAH SOUTH VILLAGE

### TECHNICAL SUBMITTAL - REV.2

May. 2008

### System Overview & Sequence of operation

Every system comprise of 1 No. constant speed fan and 2 stages of compressor. The fan will be switched on by the external switch provided by other. One number outside air temperature sensor is connected to the controller. The temperature set point can be set from the set point adjustor knob at the fascia of the controller. Compressors will be operated in stages based on the temperature input. Starting of the compressor will be sequenced based on fixed running hours he wear and tear of machine.

Compressor are interlocked with the fan such that compressor will operate only when the fan is running.

In case of broken fan belt, The Fan motor will be stopped after a fixed time delay, and Red Alarm light on panel will remain ON. The Alarm Light will be reset by External Switch cycling.

