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*User Manual for the*

*ACCS-1 Digital 7 Day Programmable Thermostat with Zone Control*

Congratulations on your purchase of the **MJB** ACCS-1. This Air conditioning Control System has been designed and manufactured in Australia to provide maximum system efficiency, whilst maintaining an easy to use user interface. The ACCS-1 will provide you with years of trouble free operation, and is covered by a 12-month warrantee against faulty components and workmanship.

❖ **Contents:**

➤ Advanced Features	Page 2
➤ Wall Controller Functions	
▪ Setting the time	Page 3
▪ Setting the date	Page 4
➤ System Operation	
▪ Manual Operation Cooling	Page 4
▪ Manual Operation Heating	Page 4
▪ Auto Operation	Page 4
▪ Fan Only Operation	Page 4
▪ Setting 7 Day programmable time clock	Page 5
➤ Trouble Shooting	Page 6



## ***Advanced Features:***

### ***Auto-Restart After Power Failure:***

Should a power failure occur whilst the air conditioning system is running, the controller will restart the air conditioner in the same mode when the power is restored as it was prior to the power failure.

### ***Temperature Display:***

The ACCS-1 is capable of displaying the set point or the room temperature on the LCD display. The factory default is to display set point temperature. In this mode the set point temperature is displayed only. When room temperature is selected, the room temperature is shown until the temperature up or down buttons is pressed then the set point temperature will be shown for 15 sec. After the 15 seconds the display reverts back to room temperature.

### ***Integrated Zoning System:***

The ACCS-1 integrated zoning system is capable of controlling up to 4 zones as standard. This allows the occupant full control, of which area or areas of the house or office that they wish to air condition, therefore reducing power consumption and hence operating costs over time.

### ***Auto Defrost Function: (Heating Mode)***

At certain outdoor conditions (low temperature) there may be a build up frost on the outdoor heat exchanger. This gradual build up of frost reduces the performance of the air conditioner. The ACCS-1 detects this frost build up and will automatically activate the defrost mode.

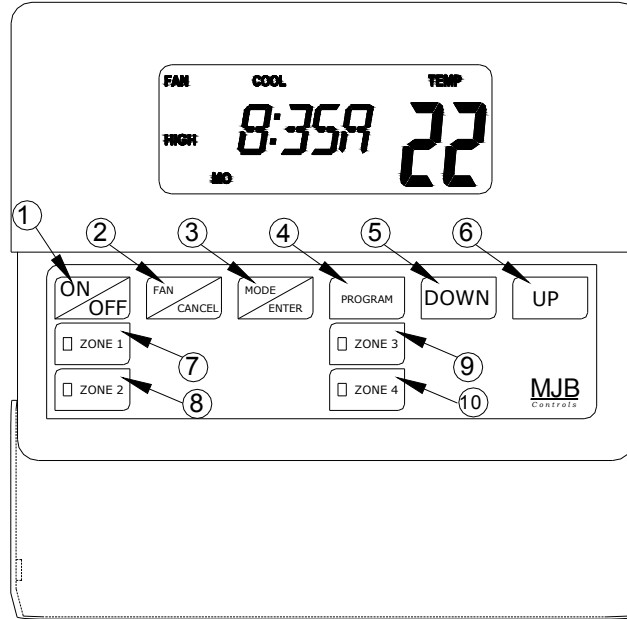
### ***Hot Start Function: (Heating Mode, Optional)***

When the air conditioning system cycles on in heating mode, the indoor fan is delayed for a short period of time, this allows the indoor heat exchanger to warm up before the air flow starts, thus preventing cold drafts. The hot start feature also activates itself when the system finishes defrosting, enhancing occupant comfort.

### ***7-Day programmable time clock:***

The ACCS-1 is equipped with a programmable 7-Day time clock. This feature is used when you might wish to turn on and off the Air Conditioning System at the same time during multiple days of the week. For example, you might wish to have your house cool by the time you get home from work. So instead of leaving it on all day or coming home to a hot house, you just program the time into the wall controller of the ACCS-1 to turn it on at say 5 PM so your house is at the correct temperature for when you get home. You could also set it to turn the Air Conditioning system off at say 1 AM when the outside temperature has reduced and cooling is no longer needed. You can do this every day of the week, Monday to Friday only or Weekends only (Saturday and Sunday). Obviously, if it's cold outside the reverse is true.

## Wall Controller Functions:



(1) Turns unit On or Off

(2) Adjusts fan speed. Also used as Cancel button in Programming Mode.

(3) Adjusts mode, e.g. Heating, Cooling, Fan only etc. Also used as Enter button in Programming Mode.

(4) Places unit in Program Mode.

(5) Use to decrease temperature. Also used to decrease settings or menus in Program Mode

(6) Use to increase temperature. Also used to increase settings or menus in Program Mode.

(7) Press to activate Zone 1

(8) Press to active Zone 2

(9) Press to activate Zone 3

(10) Press to activate Zone 4

*Please note that the Air Conditioning System must be turned on to set any of the following options:*

### Setting the Time:

- 1) Press the **PROGRAM** button to place the wall controller in program mode.
- 2) Press the **UP / DOWN** buttons until the wall controller says **SET CLOCK**.
- 3) Press the **ENTER** button to enter clock set mode.
- 4) Press the **UP / DOWN** buttons the set the desired hour then press **ENTER**.
- 5) Press the **UP / DOWN** buttons to set the desired minutes then press **ENTER**.
- 6) Press the **UP / DOWN** buttons to set the seconds to zero then press **ENTER**.
- 7) The time has now been set. Press the **PROGRAM** button to save the new settings or press the **UP/DOWN** buttons to continue.

### **Setting the Date:**

- 1) Press the **PROGRAM** button to place the wall controller in program mode.
- 2) Press the **UP / DOWN** buttons until the wall controller says **SET DATE**.
- 3) Press the **ENTER** button to enter date set mode.
- 4) Press the **UP / DOWN** buttons until the desired day then press **ENTER**
- 5) Press the **UP / DOWN** buttons until the desired month then press **ENTER**.
- 6) Press the **UP / DOWN** buttons until the desired year then press **ENTER**.
- 7) The date has now been set. Press the **PROGRAM** button to save the new settings.

The correct weekday will be automatically set, e.g. **MONDAY** during the above procedure. If the day is incorrect please recheck, **DAY, MONTH AND YEAR**.

### **Manual Operation: (Cooling)**

- 1) Press the **ON** button.
- 2) Press the **MODE** button until **COOL** is shown on the LCD.
- 3) Press the **UP / DOWN** buttons to the desired temperature setting.
- 4) Press the **FAN** button to the desired fan speed (Hi, Mid, Low) or alternatively set the fan to **AUTO** mode if you would like the ACCS-1 to adjust the fan speed for you.
- 5) Press the **OFF** button to turn the system off.

### **Manual Operation: (Heating)**

- 1) Press the **ON** button.
- 2) Press the **MODE** button until **HEAT** is shown on the LCD.
- 3) Press the **UP / DOWN** buttons to the desired temperature setting.
- 4) Press the **FAN** button to the desired fan speed (Hi, Mid, Low) or alternatively set the fan to **AUTO** mode if you would like the ACCS-1 to adjust the fan speed for you.
- 5) Press the **OFF** button to turn the system off.

### **Auto Operation:**

(Automatically changes between Cooling and Heating to maintain set temperature).

- 1) Press the **ON** button.
- 2) Press the **MODE** button until **AUTO** is shown on the LCD.
- 3) Press the **UP / DOWN** buttons to the desired temperature setting.
- 4) Press the **FAN** button to the desired fan speed (Hi, Mid, Low) or alternatively set the fan to **AUTO** mode if you would like the ACCS-1 to adjust the fan speed for you.
- 5) Press the **OFF** button to turn the system off.

### **Fan Only Operation: (Air circulation only)**

- 1) Press the **ON** button.
- 2) Press the **MODE** button until **COOL HEAT AUTO** is NOT showing on the LCD.
- 3) Press the **FAN** button to set the desired fan speed (Hi, Mid, Low).
- 4) Press the **OFF** button to turn the system off.

### **Setting 7-Day programmable time clock:**

- 1) Press the **ON** button.
- 2) Press the **PROGRAM** button to place the wall controller in program mode.
- 3) Press the **UP / DOWN** buttons until the wall controller says **SET TIMER**.
- 4) Press the **ENTER** button to enter timer mode.
- 5) **TICLR** will now be showing on the display, this means **TIMER1** is clear (no settings, if there was a previous setting then this will be displayed).
- 6) Press the **DOWN** button until **DAY1** shows on the display. From here you can choose from following days sequence's MONDAY to FRIDAY, MONDAY to SUNDAY, or individual days by pressing the **UP / DOWN** buttons. Once you have set your required days press the **ENTER** button to save.
- 7) **TI ON** time will now need to be set.
- 8) Press the **UP / DOWN** buttons to set the desired hour then press **ENTER**
- 9) Press the **UP / DOWN** buttons to set the desired minutes then press **ENTER**
- 10) **TI OFF** time will now need to be set.
- 11) Press the **UP / DOWN** buttons to set the desired hour then press **ENTER**
- 12) Press the **UP / DOWN** buttons to set the desired minutes then press **ENTER**
- 13) Should you wish to clear/cancel the timer function press the **UP / DOWN** buttons until **TI CLR** is displayed. This means you have cleared/cancelled the timer.

The time clock has a total of 4 timers, this allows for 4 different ON – OFF times over a 7-day period.

For example. If you wish to turn your Air Conditioner on at 8am and off at 10pm Monday to Friday, this can be achieved using the first timer T1

Should you wish to turn the Air Conditioner on at 9am and off at 11pm on Saturday only as well as the previous time periods this is achieved using the second timer T2 in conjunction with the first timer T1

Additional timers are set in the same manner as above. If you need more information please contact the place of purchase.

## ***Trouble Shooting:***

### ***Condition***

Wall Controller, Condenser Controller, Evaporator Controller not working

Condenser Controller, Evaporator Controller green status LED flashing, but Wall Controller not working.

System runs but intermittently stops/trips out.

***Fault*** is showing on the LCD

***EE*** showing on LCD screen (in place of Temperature reading)

***CONDENSER COMMS FAULT*** scrolling on LCD

***EVAP COMMS FAULT*** scrolling on LCD

Air Conditioner randomly stops / starts but does not show ***Fault*** on the display.

### ***Possible Causes***

No power to unit, check fuse/CB.

Incorrect wiring between Wall Controller and Condenser/Evaporator Controller

Check Fault log and rectify, then clear log

Check Fault log and rectify, then clear Log

Wall Controller Temperature probe Fault. Replace Wall Controller.

Incorrect wiring or faulty Condenser Controller

Incorrect wiring or faulty Evaporator Controller

7-day time clock is incorrectly or partly set.