

WALL CONTROL

Operation Manual



Model Numbers

LC7-2W (White)

LC7-2G (Grey)

IMPORTANT NOTE:

Please read this manual carefully before installing or operating your air conditioning unit.



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01. General Information

CONGRATULATIONS! The LC7-2 Control Interface is manufactured from the highest quality materials and designed to ensure years of satisfactory operation.

IN THIS MANUAL, You will find instructions on how to program and utilise the many advanced features this control interface has to offer. Please take time to familiarise yourself with all these features, apply their functions to suit your optimum comfort requirement and achieve energy cost savings at the same time. Thoroughly read this manual in order to ensure correct utilisation of your ActronAir air conditioner.

IMPORTANT NOTICE, ActronAir base the development of its air conditioning products on more than 30 years of experience in HVAC, sound and continuous investments in technological innovations and product improvements, advancement in manufacturing processes and quality control through 100% functional product testing. However, ActronAir cannot guarantee that all the aspects of the product and the software included with the product respond to the requirements of final application, despite the product being developed according to state of the art technology. The customer, both end user/specifier and installer, assume all liability and risks relating to the configuration of the product in order to reach the expected results in relation to the specific design and system installation. ActronAir, based on specific agreements, may be consulted for the positive commissioning, installation and application of the unit, however in no case does ActronAir accept liability for the correct operation of the final equipment / system.

Your ActronAir air conditioning unit is one of the most advanced and innovative products in the market. Its operation is specified in the technical documentation supplied with the product or which can be downloaded from our website: www.actronair.com.au. Your air conditioner requires set-up/configuration/programming in order to be able to operate in the best possible way to suit your requirement. Failure to complete such operations, may result in malfunction and/or damage to the unit, for which ActronAir accepts no liability.

Installation, commissioning and other technical services must only be carried out by a qualified technician. Ensure that the unit installation complies with all relevant council regulations and building code standards. All electrical wiring must be in accordance with current electrical authority regulations and all wiring connections to be as per electrical diagram provided. Always use appropriate PPE for your safety and protection. Make sure that any safety guards and covers are always firmly secured and not damaged. WH&S rules and regulations must be observed at all times and will take precedence during installation process and operation of the unit.

In addition, the following instructions must be observed:

- Prevent the electrical components and electronic circuits from getting wet.
- Do not install the controlling devices in hot environments as extreme temperatures may damage the electronic equipment.
- Do not attempt to open the control and other electronic devices in any way other than described in this manual.
- Do not drop, shake or hit the devices, which can cause irreparable damage to its internal circuits and mechanisms.
- Do not use corrosive chemicals, solvents or other aggressive detergents to clean the unit and the control interface.
- Do not use the unit for applications other than those specified in the technical manual.
- Do not install the unit in environment with highly flammable, combustible and/or explosive articles and materials.
- This control interface must be installed in a location that complies with the temperature and humidity limits specified in this manual.

ActronAir is constantly seeking ways to improve the design of its products, therefore specifications are subject to change without prior notice. Please check with ActronAir Service Department on toll free number: **1800 119 229**.

SPECIFICATIONS:

- Voltage: 12 VDC +/- 10% (LC7-2 control connects directly to the Indoor board)
- Data: RS485 / Cat5e Twisted Pair 7/0.20 (AWG24) Shielded Data Cable, Maximum Cable Length up to 200 m
- Operating conditions: -10 to 60 °C, < 90% RH non-condensing
- Storage conditions: -20 to 70 °C, < 90% RH non-condensing

02. Waste Electrical and Electronic Equipment Disposal Guidelines



1. Do not dispose off the waste electrical and electronic equipment with local council waste. These must be disposed off through the council designated hazardous waste collection centre.
2. The equipment may contain hazardous substances, improper or incorrect disposal may have a negative effect on human health and on the environment.

03. Maintenance

1. Keep the control interface clean with the use of a soft dry cloth only. If a cleaning solution is needed, use a very mild soap solution to dampen the cloth. Do not spray or squirt any liquid onto your control interface.
2. Do not use solvent base cleaner, which can cause damage to the control interface.
3. When cleaning, be careful not to accidentally press any buttons, TURN-OFF the unit to ensure that no adverse unit operation is initiated by accidentally pressing any buttons.
4. Be careful not to press hard into the display screen, as it may get damaged.
5. Ensure that the temperature sensor is always clean and free of dust or dirt build-up to maintain sensor accuracy.
6. Do not pull apart or attempt to service the control interface, should you need service to the device, contact ActronAir Service Department on 1800 119 229.

04. Operational Precautions

Read all instructions in this manual before operating the air conditioning unit. Failure to do so may result in damage to the unit and void your warranty.

ACCESS PANELS AND GUARDS: NEVER remove any access panels or guards as this could cause injury from electric shock and burns from extremely hot components. Never allow any bodily parts such as fingers or objects to protrude through the fan guards or any other opening as they could cause personal injury and damage the air conditioner.

SUPERVISION OF CHILDREN AND INFIRM PEOPLE: This appliance is not intended for use by young children or infirm person unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely. Young children should be supervised to ensure that they do not play with the appliance.

RETURN AIR FILTER: The air conditioner must never be operated without a return air filter as this will allow a build up of dust etc on the indoor coil. This is very difficult to clean and causes the system to operate inefficiently or even fail.

CRANKCASE HEATER PRECAUTION: The main power (Outside switch board) to the system must be kept ON at all times to prevent damage to the outdoor compressor unit. Should the main power be disconnected or interrupted for 6 hours or longer, then no attempt should be made to start the system for 2 hours after the power has been restored to outdoor unit. This allows the compressor to warm up, and remove any liquid refrigerant that may cause damage.



WARNING



KEEP OUT OF REACH OF CHILDREN

Contains button or coin cell battery. Hazardous if swallowed. Swallowing can lead to chemical burns, perforation of soft tissue and death. Severe burns can occur within 2 hours of ingestion. Seek medical attention immediately.

05. System Information

Air Conditioner	
Model No.	
Serial No.	
The air conditioner model and serial number is situated on the access panel of the outdoor unit bottom left corner.	
Wall Control	
Model No.	
The wall control model number is situated inside the wall control flip lid.	
Installer	
Company Name	
Phone Number	
Technicians Name	

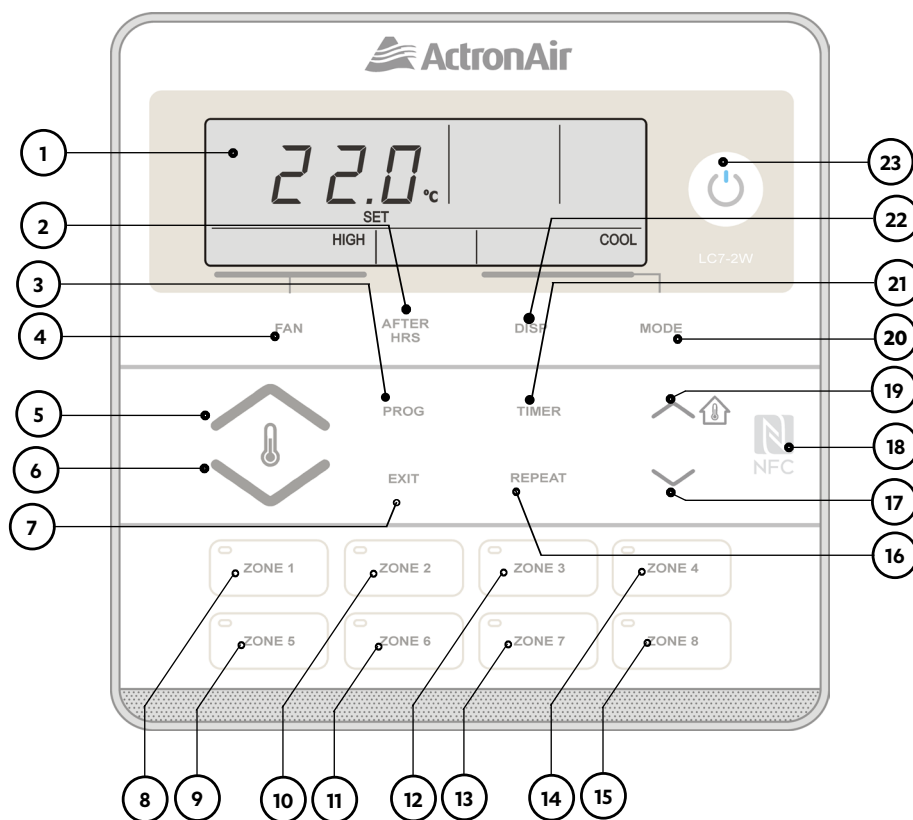
06.Features

1	Auto-Restart After Power Failure Should a power failure occur whilst the air conditioner is running, the wall control will restart the air conditioner in the same mode when the power is restored, if this option is selected.
2	Dual/Triple Wall Control Operation (Optional) Up to Three wall control can be installed on one system. This is particularly useful on larger buildings, where you can have up to three wall controls in different locations.
3	Room and Outside Temperature Display with One Touch Press the  button and the set temperature display will change to show the room temperature for 10 seconds. Press the  button, and the control will change to show the outside temperature for 10 seconds. Note: This function is applicable to selected products only.
4	Auto Defrost Function (Heating Mode) At certain outdoor conditions (low temperature) there may be a build up of frost on the outdoor heat exchanger. This gradual build up of frost reduces the performance of the air conditioner. The system detects this frost build up and will automatically activate the defrost mode. The defrost mode is displayed on the wall control by flashing the DEFROST indicator every 10 seconds.
5	Hot Start Function (Heating Mode) When the air conditioner starts in heating mode, the indoor fan is delayed for a short period of time, this allows the heat exchanger to warm up before the air flow starts, thus minimising cold drafts. The hot start feature also activates itself when the system finishes defrosting.
6	Filter Clean Light The system monitors the accumulated run time of the air conditioner and after a preset number of hours have expired, the FILTER indicator will flash, indicating it's time to check if filter requires cleaning.
7	Self Diagnosis In the unlikely event that a fault develops with the air conditioner the system will detect a fault and displays the relevant fault code on the wall control.
8	Turbo Mode Activates fast cooling or heating option to bring room to a desired temperature speedily and effectively

NOTE

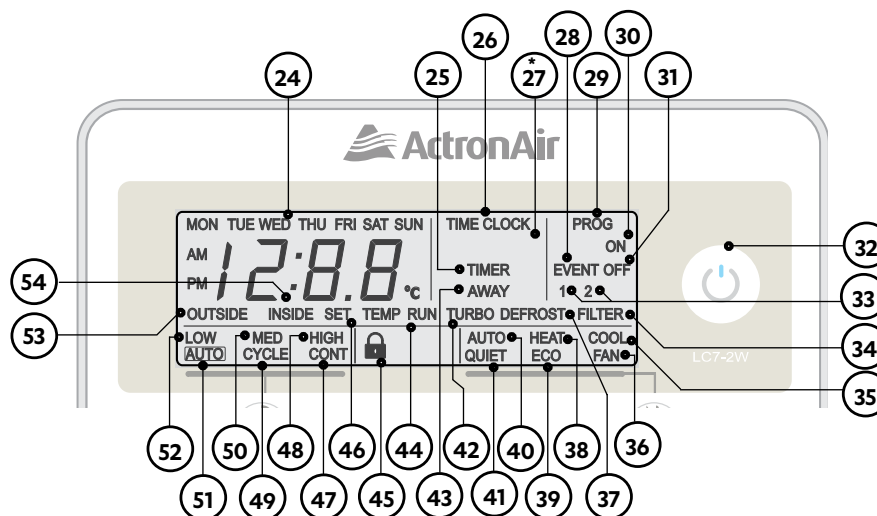
Some applications may require cleaning of the filter at more regular intervals.

07. Wall Control Functions



- ① **LCD Display**
Displays the setting and operation conditions (See next page for details).
- ② **AFTER HRS**
For setting after hours timer.
- ③ **PROG Button***
For setting the clock and for entering the 7-Day time clock menu.
- ④ **FAN Control Button**
Changes fan speed (high, medium and low). Selects continuous and non continuous fan operation.
- ⑤ **Temperature-Up Setting Button**
Increases room temperature setting.
- ⑥ **Temperature-Down Setting Button**
Decreases room temperature setting.
- ⑦ **EXIT Button**
Quick exit from time clock programming menu.
- ⑧ **ZONE 1 Button with On/Off Indicator**
- ⑨ **ZONE 5 Button with On/Off Indicator**
- ⑩ **ZONE 2 Button with On/Off Indicator**
- ⑪ **ZONE 6 Button with On/Off Indicator**
- ⑫ **ZONE 3 Button with On/Off Indicator**
- ⑬ **ZONE 7 Button with On/Off Indicator**
- ⑭ **ZONE 4 Button with On/Off Indicator**
- ⑮ **ZONE 8 Button with On/Off Indicator**
- ⑯ **REPEAT / Backlight Button**
 - Repeats the previous day settings to the current day.
 - Adjust and Turn On/Off Backlight.
- ⑰ **Adjust Clock-Down Setting and Outside Ambient Temp Display Button** (Applicable to selected products only)
- ⑱ **NFC Tag**
- ⑲ **Adjust Clock-Up Setting and Room Temp Display Button**
- ⑳ **Operation MODE Button**
For setting the mode of operation (auto, heat, cool, dry and fan-only mode).
- ㉑ **TIMER Operation Button***
Activates timer function.
- ㉒ **DISP**
Displays the indoor temperature, day and set temperature.
- ㉓ **Power On/Off Button**

* Setting up 7-Day time clock and Timer operation are only possible through Wall Control (C-1).



- 24 Day Indicator**
Display the day of the week when the time is shown and which day is selected for programming.
- 25 Timer Indicator**
Indicates timer is in operation.
- 26 Time Clock Indicator**
- 27 After Hours Indicator ***
- 28 Event Indicator**
Indicates which event of the Time clock is being set.
- 29 Prog Indicator**
Indicates when controller is currently in Program Menu.
- 30 On Indicator**
- 31 Off Indicator**
- 32 Power On/Off Button Backlight**
- 33 1 and 2 Indicator**
Illuminates together with Event to show the programming event.
- 34 Filter Indicator**
- 35 Cooling Mode Indicator**
- 36 Fan-Only Indicator**
- 37 Defrost Indicator**
- 38 Heating Mode Indicator**
- 39 ECO**
Indicates when outside air damper is selected.
- 40 Auto Mode Indicator**
Indicates the system will automatically select heating or cooling operation.
- 41 Quiet Indicator**
Indicates when the quiet mode is operation.
- 42 Turbo Mode Indicator**
Indicates when the turbo mode is in operation
- 43 Away Indicator**
Indicates that the system is operating to achieve Away Mode temperature
- 44 Run Indicator**
Indicates the outdoor unit is in operation, flashes when on delay.
- 45 Lock Symbol**
Shows during backlight adjustments and while using button. In addition, when the following is enabled: Mode Lock, Fan Speed Lock, Setpoint Lock and Keypad Lock.
- 46 Set Indicator**
Illuminates during time and time clock setting adjustments.
- 47 Continuous Indicator**
Illuminates when the fan is set to continuous mode.
- 48 High Fan Speed Indicator**
Illuminates when the fan is set to high speed.
- 49 Cycle Indicator**
Illuminates during reduced airflow operation.
- 50 Medium Fan Speed Indicator**
Illuminates when the fan is set to medium speed.
- 51 Auto Fan Speed Indicator**
Illuminates when the fan is set to auto fan speed mode.
- 52 Low Fan Speed Indicator**
Illuminates when the fan is set to low speed.
- 53 Outside Indicator**
Illuminates when the outside temperature is being displayed.
- 54 Inside Indicator**
Illuminates when the inside room temperature is being displayed.

* This function is applicable to LC7 Wall controller only.

08. Controller Assignment

Upon initial start up of the system, all connected LC7 controllers will display "C-0". After 3 seconds, an auto-assignment process will take place - for example, if 3 controllers had been connected to the CMI board (maximum number of controllers connected), "C-1", "C-2" and "C-3" would be assigned and displayed on the corresponding controller.

If the C-0 display did not change, check the wiring between the controller and Indoor Unit Board.

This may be caused by:

- Loose or interchanged wire connection or (between Controller and Indoor Unit Board)
- No communication between the controller and Indoor Unit Board due to faulty cable

NOTE

In the case of disconnecting the "C-1" controller from the system, the other LC7 controllers will show an error code (E56 - No main wall controller detected). To troubleshoot this error code:

- Troubleshoot "C-1" LC7 controller - check the wiring & connection of the controller. If E56 is still being displayed on "C-2" and "C-3", connect a replacement LC7 controller. During its first power on cycle, it will auto assign itself to the vacant address.


09. Turn Air Conditioner On/Off

NOTE



The air conditioning system will re-start on your last settings and operating mode e.g. 22°C set temperature, AUTO mode, HIGH fan speed.

The display will show the Set Temperature, Fan Speed, Fan Mode and Mode of Operation.



09.01. Turn On the Air Conditioner

Press the  button once to turn On and Press the  button once again to turn Off.

10. Adjusting Set Temperature

Press either the  or  buttons to either increase or decrease the temperature correspondingly.

NOTE

- For a WARMER room temperature, press the  button.
- For a COOLER room temperature, press the  button.
- The Set Temp is adjustable between 16°C and 30°C in 0.5°C increments.
- The Set Temp is adjustable in control even when the system is Off.
- No Set Temp displayed during Fan-Only Mode.

11. Changing Operating Mode

NOTE

- For all modes of operation, **LOW**, **MED**, **HIGH**, **CONT LOW**, **CONT MED** and **CONT HIGH** Fan Speeds can only be selected if the 3-Speed Fan setting option is selected. Otherwise **MED** and **CONT MED** are available for 1-Speed Fan.
- When in Fan-Only Mode **CONT LOW**, **CONT MED** and **CONT HIGH** will not be available
- When in **DRY** Mode, **LOW** and **CONT LOW** will be the only options available.
- When the system is ON, the Indoor Fan can run continuously and is indicated by the **CONT** indicator on the LCD. This is generally preferred during the Cooling Mode to ensure maximum air circulation. When set to **LOW**, **MED** or **HIGH** the fan will cycle with the compressor operation according to set point and room temperatures.

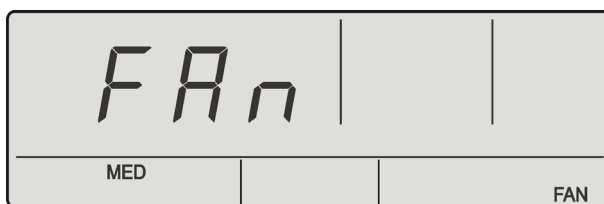
11.01. Fan-Only Operation

- Press the **MODE** button until **FAN** appears on the display.



NOTE

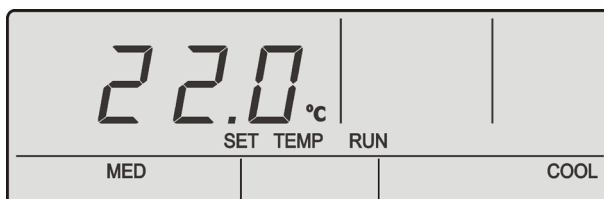
The 1-speed or 3-speed fan option will depend on the A/C setup.

Adjust the Indoor Fan speed (**LOW**, **MED** and **HIGH**) by pressing the **FAN** button successively until you reach the desired speed (only for 3-speed fan).





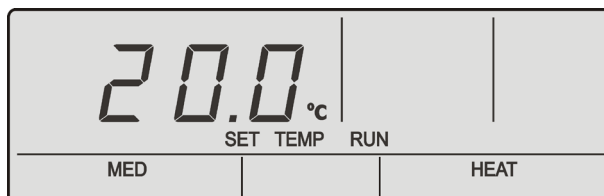
11.02. Cooling Operation

- Press the **MODE** button until **COOL** appears on the display.
- Set the desired temperature by pressing either the  or  buttons.
- Adjust the desired Indoor Fan speed by pressing the **FAN** button.
Available settings are: **LOW**, **MED**, **HIGH**, **CONT LOW**, **CONT MED** and **CONT HIGH**.



11.03. Heating Operation



1. Press the **MODE** button until **HEAT** appears on the display.
2. Set the desired temperature by pressing either the  or  buttons.
3. Adjust the desired Indoor Fan speed by pressing the **FAN** button.
Available settings are: **LOW**, **MED**, **HIGH**, **CONT LOW**, **CONT MED** and **CONT HIGH**.

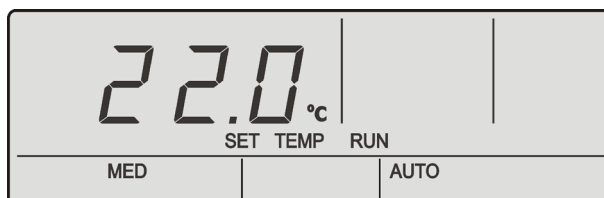


NOTE

Setting the indoor fan speed to continuous mode can cause cool drafts when operating the system on heating mode during compressor off cycles.

11.04. Auto Operation

1. Press the **MODE** button until **AUTO** appears on the display.
2. Set the desired temperature by pressing either the  or  buttons. Adjust the desired Indoor Fan speed by pressing the **FAN** button.
3. Available settings are: **LOW**, **MED**, **HIGH**, **CONT LOW**, **CONT MED** and **CONT HIGH**.





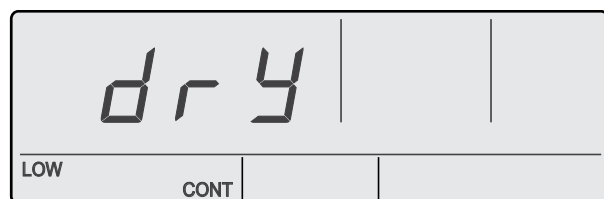
NOTE

Setting the indoor fan speed to continuous mode can cause cool drafts when operating the system on heating cycle during compressor off cycles.

11.05. Dry Operation

Automatically changes to cooling mode and fan speed to Low.

1. Press the **MODE** button until **drY** appears on the display.
2. Set the desired temperature by pressing the  or  buttons.
3. Adjust the desired Indoor Fan speed by pressing the **FAN** button. Available settings are: **LOW** and **CONT LOW**



NOTE

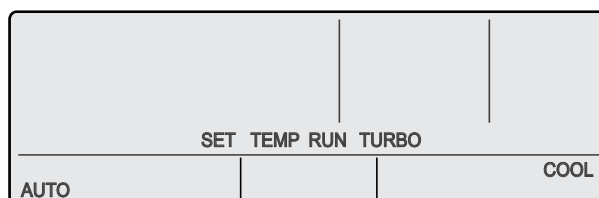
In Dry Mode, the system uses the indoor coil temperature as the primary control parameter to optimize dehumidification, while the room temperature set point functions as a secondary control reference. The coil temperature is maintained within a defined range to enhance moisture removal, but the compressor ultimately cycles ON and OFF in response to the room temperature set point.

11.06. Turbo Mode (available on Inverter models only)

In cases where the room temperature is too hot or too cold, the Turbo Mode offers the option to cool or heat the space quickly and effectively for a span of 30 minutes. After 30 minutes, it switches back to the previous settings. The customer may reactivate the Turbo Mode again if they wish to do so.

Turn On Turbo Mode

1. Press the **MODE** button for 3 seconds to activate the **TURBO** mode.
2. Fan speed will be displayed as **AUTO**



Turn Off Turbo Mode

There are three (3) ways to exit the Turbo mode.

1. Press the **MODE** button for 3 seconds.
2. Press the **ON/OFF** button.
3. Turbo mode will automatically turn off after 30 minutes.

12. Timer Operation

NOTE

- Setting up the timer operation can only be made via Wall Control 1 (**C-1**). When you press **TIMER** button on Wall Control 2 or 3, it will show **C-2** or **C-3** in the display. This is to indicate that the wall control is not the **C-1** wall control, and setting up the timer is not possible.
- Timer function is disabled when After Hours function is ON.




12.01. OFF Timer

1. Press the **TIMER** button to enter the timer menu.

NOTE



The system must be On to set OFF timer.

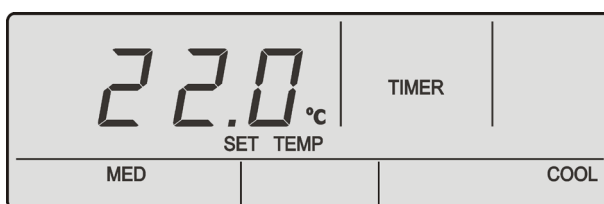



- Press the   or  buttons to select the desired time for the system to remain operating before turning OFF.

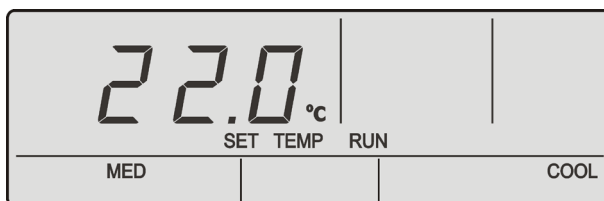
The maximum adjustable timer hours are 24 with 0.5 hour (30 minute) adjustable increments.



- 3 seconds after the last press of the   or  buttons, the display will go back to the main screen and the OFF Timer countdown will start. The unit will turn OFF after the timer has expired.



- If a timer is active, **TIMER** indicator will be displayed. To cancel the Off Timer, press the  button and the **TIMER** indicator will disappear.






12.02. ON Timer

- Press the **TIMER** button to enter timer menu.



NOTE

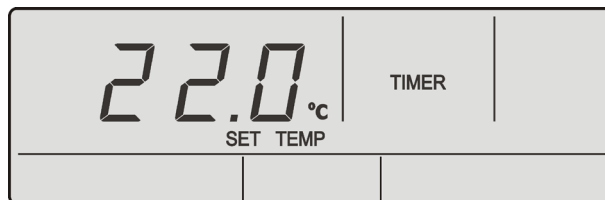
The system's status must be Off to set an ON Timer.



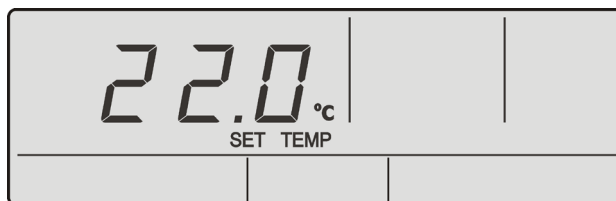
- Press the   or  buttons to select the desired time for the system to turn On. The maximum adjustable timer hours are 24 with 0.5 hour (30 minute) adjustable increments.



- 3 seconds after the last press of the  or  buttons or simply press **TIMER**, the display will go back to the main screen and the On Timer countdown will start. The unit will turn On after the timer has expired.








- To cancel the ON Timer, press the  button.



13. Backlight Function


13.01. LCD Backlight Level Adjustment

- Press and continue to hold **REPEAT** button.
- Press the  or  buttons to adjust the backlight level as follows:
 - To brighten the backlight, press the  button.
 - To dim the backlight, press the  button.
- Release the buttons at the desired level of LCD brightness. The lock  symbol will appear for 3 seconds showing that the backlight level is set.

13.02. Permanently Turn On LCD Backlight


NOTE

By default, the LCD Backlight is programmed to turn off 15 seconds after a button has been last pressed.





- Press and hold the **REPEAT** button for 4 seconds.
- When Lock  appears, release the **REPEAT** button and the backlight will remain illuminated.
- To return to default settings, repeat steps 1 and 2.

13.03. ON/OFF Button Light





NOTE

The Wall Control status must be On before operating this procedure. By default, the  button backlight is On.

13.03.01. Turn On the ON/OFF Button Backlight

- Press and hold the **REPEAT** button.
- Press and release the  button, along with the **REPEAT** button.
- Lock  symbol will appear for 3 seconds showing that the  button backlight is set.  backlight will remain lit.

13.03.02. Turn Off the On/Off Button Backlight

1. Press and hold the **REPEAT** button.
2. Press and release the  button, along with the **REPEAT** button.
3. Lock  symbol will appear for 3 seconds showing that the  button backlight is set.  backlight will turn OFF.

14. Program Menu

NOTE

- The Program Menu has a 60 second inactive timeout, once expired, display will return to the home screen.
- Program Menu **01** (7-Day Programmable Function), **02** (Clock) and **03** (Away Mode) can only be set via Wall Control 1 (**C-1**). Wall Control 2 and 3 (**C-2** and **C-3**) will skip these Menu and directly proceed at Menu **04**.

14.01. 7-Day Programmable Function

14.01.01. Time clock Operation

NOTE

- The 7-Day Time clock feature of the LC7-2 control allows you to set the air conditioning system to Turn-ON and Turn-OFF at different times for each day of the week.
- Each day can have 2-Programmed Events.
- Each event has an On and Off time.
- Ensure that the current day and time are set correctly before proceeding with programming.
- To reset any scheduled time clock events, press and hold the **PROG** and **DISP** buttons for 3 seconds.

14.01.02. Example of Time clock Operation

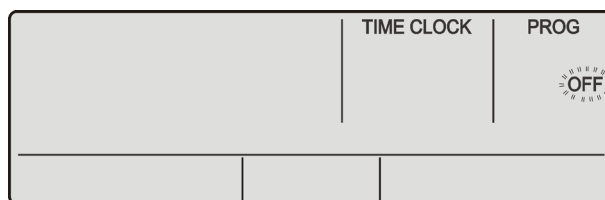
		MON	TUE	WED	THU	FRI	SAT	SUN
EVENT 1	ON TIME	6:00am	6:00am	6:00am	6:00am	6:00am	7:00am	8:00am
	OFF TIME	10:00am	10:00am	10:00am	10:00am	10:00am	9:00am	11:00am
EVENT 2	ON TIME	4:00pm	4:00pm	4:00pm	4:00pm	1:00pm	--:--	--:--
	OFF TIME	10:00pm	10:00pm	10:00pm	10:00pm	11:00pm	--:--	--:--

14.01.03. Activating the 7-Day Time clock

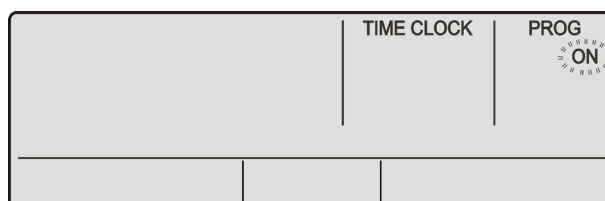
1. Press the **PROG** button to enter program Menu. **TIME CLOCK** and **PROG** indicators will be illuminated on the screen.



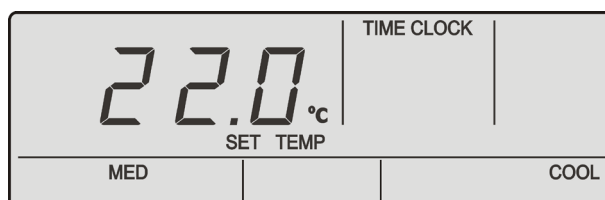
- Press the **PROG** button to enter the time clock menu. By default, time clock program is **OFF**. **TIME CLOCK** and **PROG** indicators are still illuminated. **OFF** indicator will be flashing in the screen.



- Press the   button to scroll from **OFF** to **ON**.



- Press the **PROG** button to accept the selection and re-activate the time clock.
- Press the **EXIT** button twice to go back to main display screen. **TIME CLOCK** indicator will re-appear in the screen, indicating that the Time clock has been reactivated.

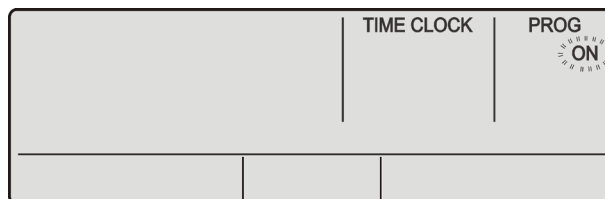


14.01.04. Setting the Programmable Time Clock

- Press the **PROG** button to enter program Menu. **TIME CLOCK** and **PROG** indicators will be illuminated in the screen.




- Press the **PROG** button to enter the time clock menu. Time Clock program is currently On. **TIME CLOCK** and **PROG** indicators are still illuminated. **ON** indicator will be flashing in the screen.




- Press the **PROG** button (**ON** is selected) to program time clock. **TIME CLOCK**, **PROG**, **ON**, **EVENT 1**, **MON** and **SET** indicators and Time Fields will be shown in the screen. You can now set the Event 1 On time for Monday.

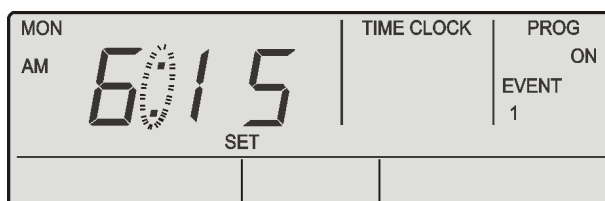




NOTE

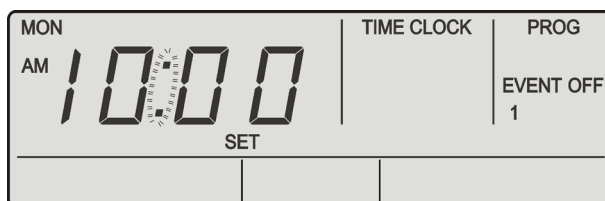
Pressing the  button will enable or disable the Time Clock program.

Example:

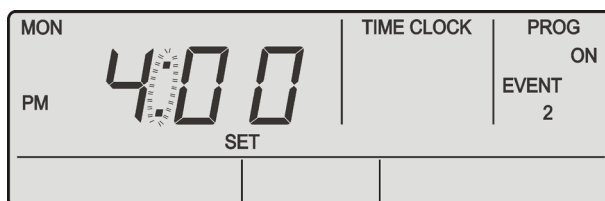
Press the  button to adjust the time in 15 minutes increments. **AM** and **PM** will toggle after the 12th Hour.



- Press the **PROG** button to move to Event 1 Off time. Press the  or  buttons to adjust the time in 15 minutes increments.



- Press the **PROG** button to move to Event 2 On time. Repeat Step 4 to program Event 2 On and Off time.



NOTE

Press the **EXIT** button at any time if no further changes to later Days/Events are required.

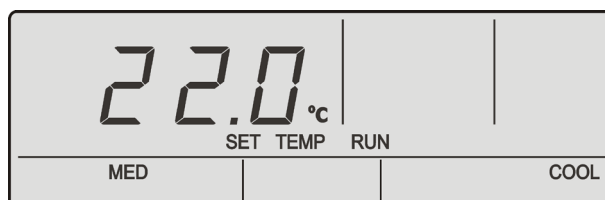
- Press the **PROG** button to move onto Event 1 On time of following day, **TUE**.



- Repeat the above steps until you have programmed all the events you require. Otherwise, press the **EXIT** button twice to exit Program Menu. **TIME CLOCK** display will show on the screen to indicate that it is active.

NOTE

If a button has not been pressed after 60 seconds the control will exit the Time Clock program menu and return to the home screen. During a power failure, the control will retain the time and Time Clock settings.



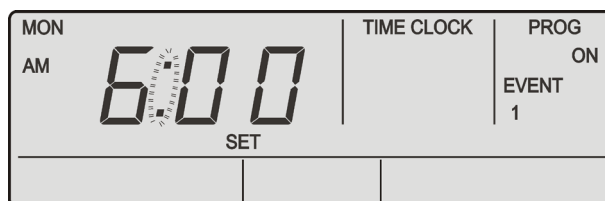
14.01.05. Repeating a Day's Events and Times

This feature allows you to automatically repeat the previous days, events, and times, into the succeeding days.

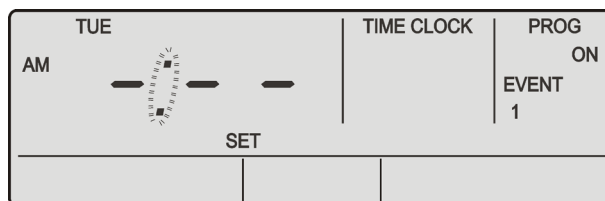
- Proceed to the day you wish to copy the programmed events and times. See Programming the Events from previous page. **SET, EVENT 1, TIME CLOCK, PROG, MON** and **ON** will be illuminated on the screen.

NOTE

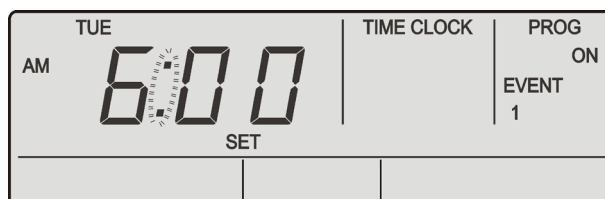
For this example, events from Monday will be repeated on Tuesday.
Repeat function can only be applied to the succeeding day with programmed events.



- Press the **PROG** button until you reach the succeeding day, **TUE**, to paste the copied programmed events and times.



- Press the **REPEAT** button.



- You have now copied the previous day's events into the current day displayed. Repeat Steps 2 and 3 above for the remaining days where you wish to repeat the programmed events and times.

14.01.06. Programming Past Midnight

NOTE

- Event ON times can be set up to 11:45 PM of the current day.
- Event OFF times can be set to the following day up to 23 hours and 45 minutes after the ON time.
- If you program Event 1 past midnight, Event 2 will be automatically cancelled.

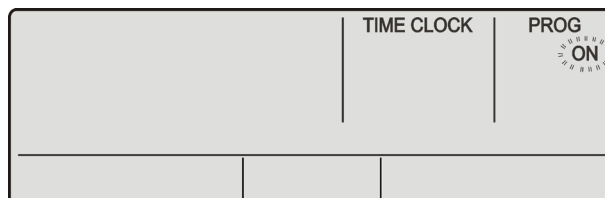
14.01.07. Cancelling an Individual Event

In the following example, EVENT 1 of Tuesday will be cancelled.

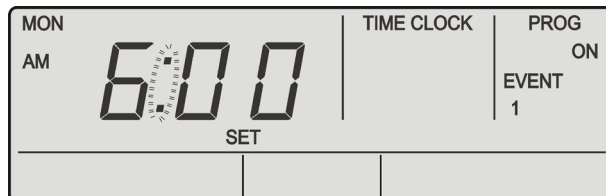
- Press the **PROG** button to enter program Menu. **TIME CLOCK** and **PROG** indicators will be illuminated in the screen.



- Press the **PROG** button to enter the time clock menu. **TIME CLOCK** and **PROG** indicators are still illuminated. **ON** indicator will be flashing on the screen.




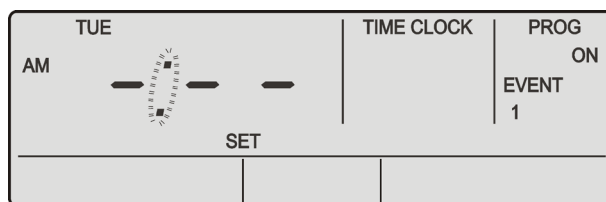
- Press the **PROG** button (**ON** is selected) to program time clock. **TIME CLOCK**, **PROG**, **ON**, **EVENT 1**, **MON** and **SET** indicators and time fields will be shown on the screen. You can now set the Event 1 ON time for Monday.



- Continue pressing the **PROG** button to get to the desired event to cancel.



- Press the  button to delete Tuesday's event. **--:** will be displayed indicating the event is cancelled.



- Repeat above process to repeat other days event otherwise, press the **EXIT** button twice to exit Program Menu.

NOTE

Cancelling Event 1 will cancel both Event 1 and Event 2.
Cancelling Event 2 will only cancel Event 2.

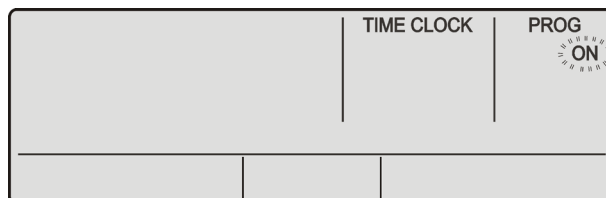
14.01.08. Re-activating an Individual Event

In the following example, **Event 1** of Tuesday will be re-activated.

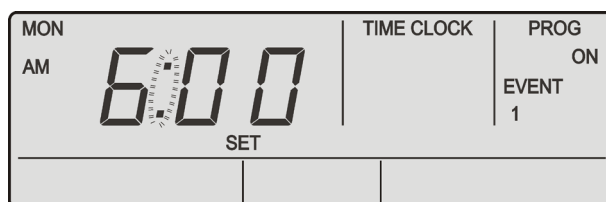
- Press the **PROG** button to enter program Menu . **TIME CLOCK** and **PROG** indicators will be illuminated in the screen.



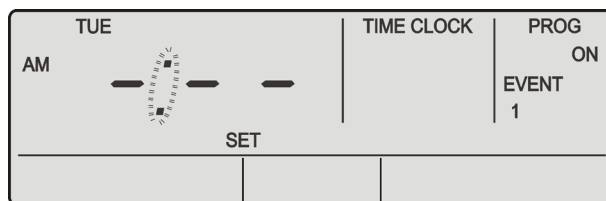
- Press the **PROG** button to enter the time clock menu. Time Clock program is currently **ON**. **TIME CLOCK** and **PROG** indicators will still be illuminated, with the **ON** indicator flashing.




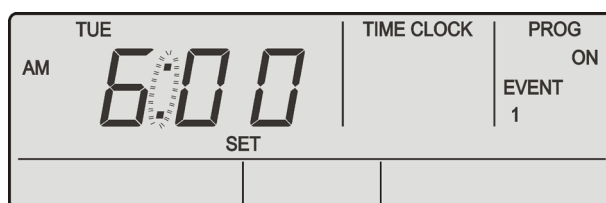
- Press the **PROG** button (**ON** is selected) to program time clock. **TIME CLOCK**, **PROG**, **ON**, **EVENT 1**, **MON** and **SET** indicators and time fields will be shown in the screen. You can now set the Event 1 On time for Monday.



- Continue pressing the **PROG** button to get to desired event to re-activate.



- Press the  button to re-activate Tuesday's event. The event's On time will be displayed indicating the event is re-activated.



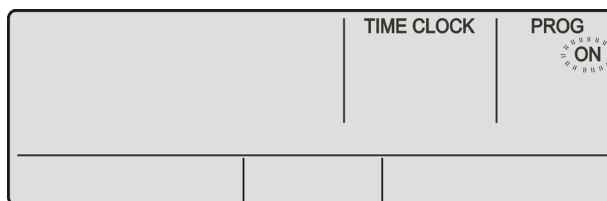
- Press the **EXIT** button twice to exit Program Menu.


14.01.09. De-activating the 7-Day Time Clock

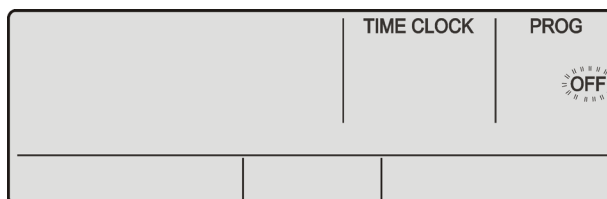
- Press the **PROG** button to enter program Menu. **TIME CLOCK** and **PROG** indicators will be illuminated on the screen.



- Press the **PROG** button to enter the time clock menu. Time Clock program is currently **ON**. **TIME CLOCK** and **PROG** indicators are still illuminated. **ON** indicator will be flashing on the screen.



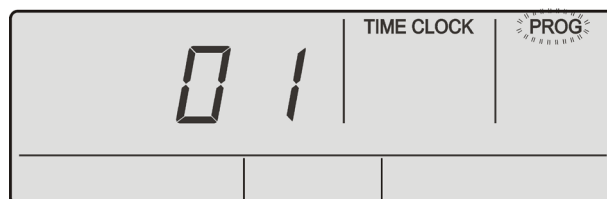
- Press the  button to scroll through from **ON** to **OFF**.



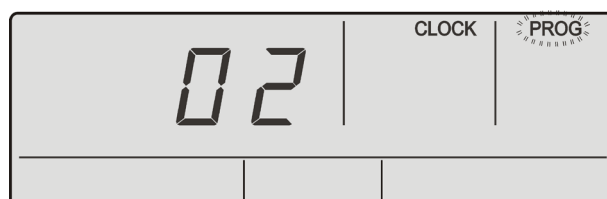
- Press the **PROG** button to accept the selection and de-activate time clock, then press the **EXIT** button once. **TIME CLOCK** indicators will disappear from main screen, indicating that the Time clock has been de-activated.

14.02. Setting the Clock

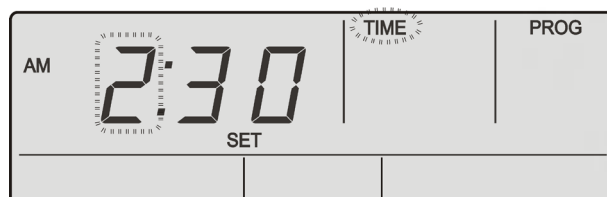
- The system's status must be On before performing these procedures. Press the **PROG** button to enter program Menu.






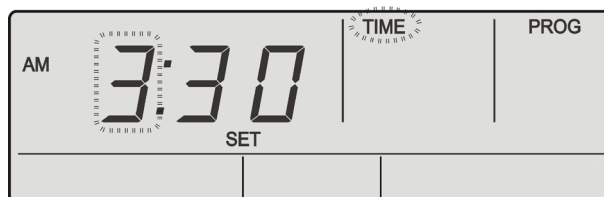
- Press the   or  buttons to navigate to Program Menu **02**.



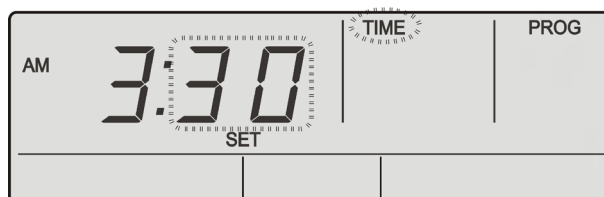
- Press the **PROG** button to enter Program Menu 02. Display will show clock display. Hour field and **TIME** is blinking.



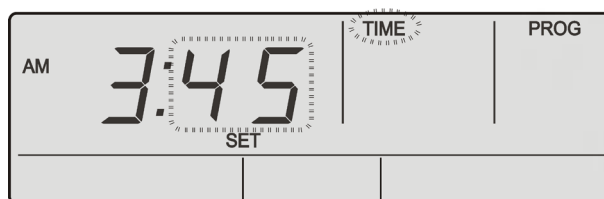
4. Press the   or  buttons to adjust the Hour. **AM / PM** will adjust after the 12th hour.



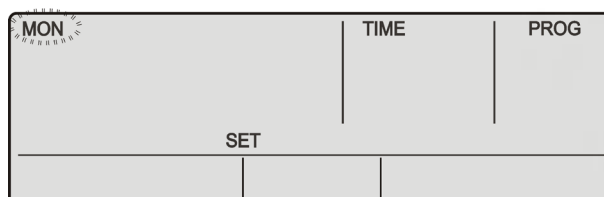
5. Press the **PROG** button to accept the desired hour. Minute field will start blinking.



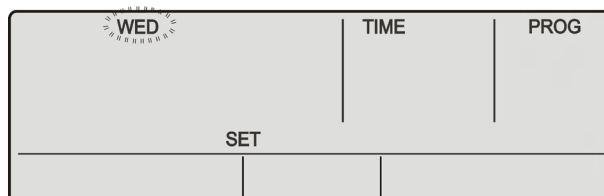
6. Press the   or  buttons to adjust the Minutes.



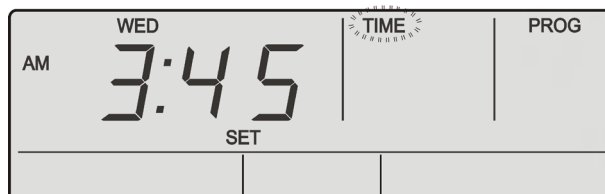
7. Press the **PROG** button to accept the desired minutes. Day field will start blinking. Day indicator will be flashing, i.e. **MON**.



8. Press the   or  buttons to adjust the Day.



- Press the **PROG** button to accept the desired Day. Screen will show the final selected time and day.



- Press the **EXIT** button twice to go back to Main Screen.

14.03. Away Mode

Normally, the air conditioning system is turned off during unoccupied conditions, which can result in the building temperature becoming quite hot (e.g. 30°C) or quite cold (e.g. 12°C). When the air conditioning system is turned on, it can take a long time to achieve a comfortable temperature (e.g., 23°C).

The Away Mode will maintain the building temperature at a pre-defined and reasonable temperature closer to the chosen set temperature (The factory default Away heating temperature is set at 20°C and the cooling temperature is set at 28°C. These settings can be changed via the Away menu). This gives you a big head start in achieving your comfortable temperature.

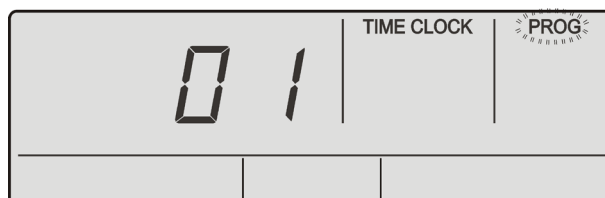
The air conditioning system must be Turned Off before performing the below procedures.



14.03.01. Activating the Away Mode

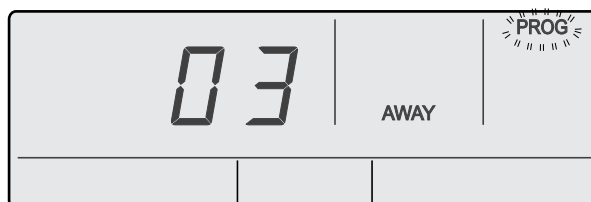
NOTE

Activating Away Mode may cause unit to operate even if the LR7 Wall controller is Off. Please proceed with activating the Away Mode if you understand the purpose and operating parameters. For further enquires, please contact ActronAir Technical Support on 1800 119 229.

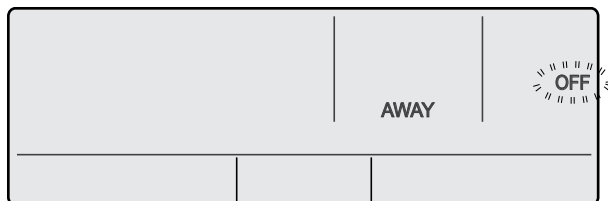
- Press the **PROG** button to enter program Menu.



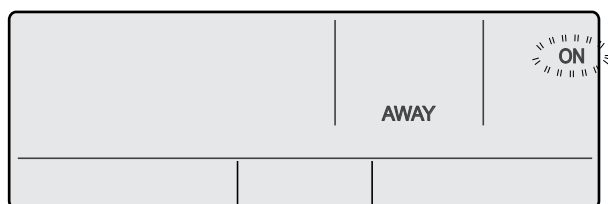
- Press the  or  buttons to navigate to Program Menu 03.



- Press the **PROG** button to enter Program Menu 03. Display will show **AWAY** indicator and **OFF** field is blinking.



- Press the  or  buttons to scroll from **OFF** to **ON**.



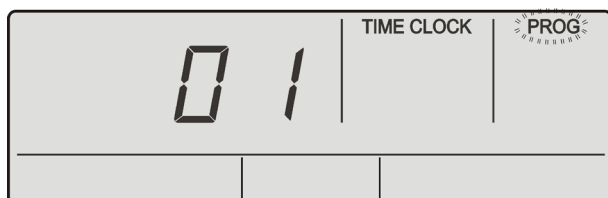
- Press the **PROG** button to confirm the selection.
- Press the **EXIT** button thrice to go back to Main Screen.



14.03.02. Setting Temperature in Away Mode

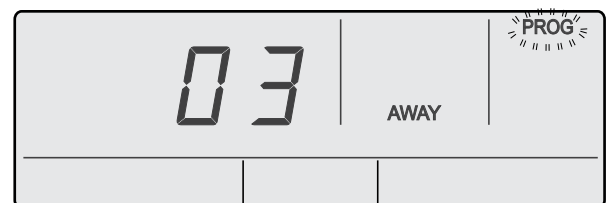
NOTE

The Away Mode Cool to and Heat to limits can only be adjusted from the Away Mode menu. In the occurrence of when the unit's setpoint (prior to Away operation) is below the Heat to limit or higher than the Cool to limit, the unit's setpoint will automatically become the new Away limit.

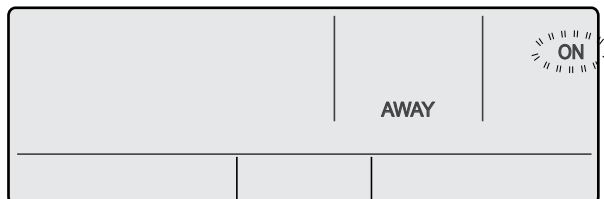
- Press the **PROG** button to enter program Menu



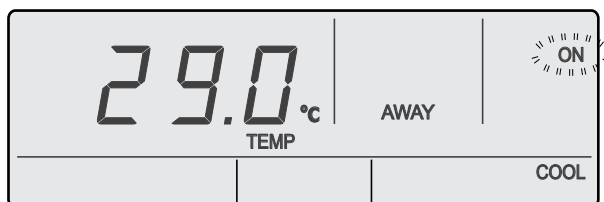
- Press the  or  buttons to navigate to Program Menu 03.





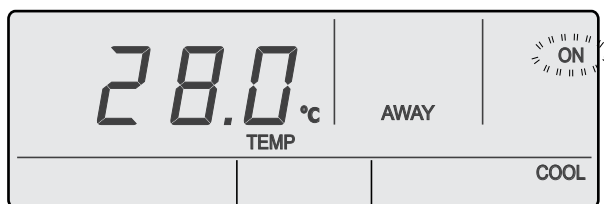
- Press the **PROG** button to enter Program Menu 03. Display will show **AWAY** indicator and **ON** field is blinking.



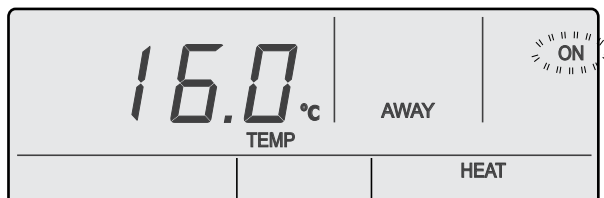
- Press the **PROG** button to enter On Program Menu.





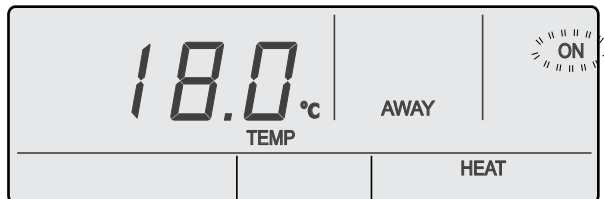
- Press the  or  buttons to change the **COOL** away temperature.



- Press the **PROG** button to accept **COOL** Away temperature. Next screen will show **HEAT** away temperature adjustment.



- Press the  or  buttons to change the **HEAT** away temperature.



- Press the **PROG** button to accept **HEAT** away temperature.
- Press the **EXIT** button once to go back to the Main Screen.

14.03.03. Temperature Away Screens

Tabulated below are the different screens that are displayed on the LR7 during Away Mode operation.

- H_{Away} - Heat To Away limit
- C_{Away} - Cool To Away limit
- U_{Away} - Unit Away prior to unit turned off
- R_{temp} - Room Temperature

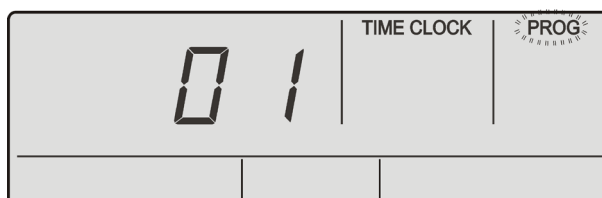
Case	Temperature Displayed	Mode of Operation	LR7 Display
$H_{\text{Away}} \leq R_{\text{temp}} \leq C_{\text{Away}}$	U_{setpoint}	Off	
$R_{\text{temp}} < H_{\text{Away}}$	H_{Away}	Heating	
$R_{\text{temp}} > C_{\text{Away}}$	C_{Away}	Cooling	



NOTE

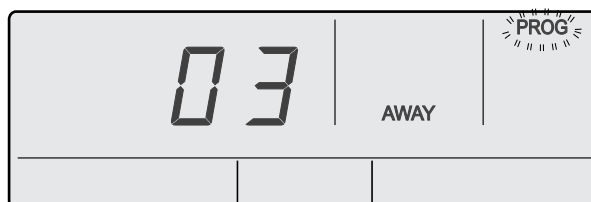
- Indoor fan speed will operate to last setting.
- The button backlight is always off under the away mode when operation mode is heat or cool.

14.03.04. De-Activating the Temperature Away

- Press the **PROG** button to enter program Menu



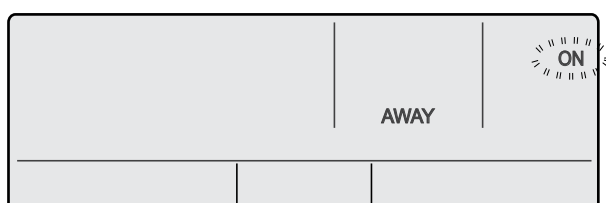
- Press the  or  buttons to navigate to Program Menu 03.



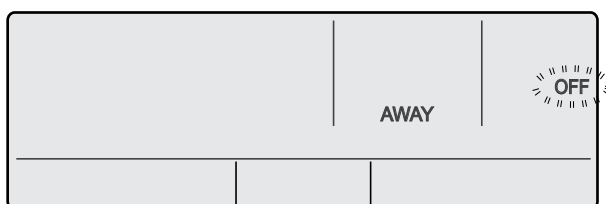
- Press the **PROG** button to enter Program Menu 03.

NOTE

Display will show away display. **ON** field is blinking.



- Press the  or  buttons to toggle from **ON** to **OFF**.



- Press the **PROG** button to confirm the selection.
- Press the **EXIT** button once to go back to Main Screen.

14.04. Mode Lock

14.04.01. Activating Mode Lock

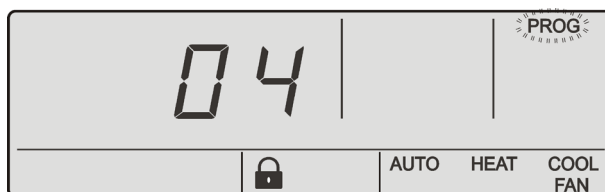
NOTE

- Mode Lock will prevent user from changing the mode of operation based on previous mode being used.
- Mode Lock may be set independently on each wall controller connected.

- Ensure that the control is set to the mode you wished to lock to.
- Press the **PROG** button to enter program Menu.



3. Press the   or  buttons to navigate to Program Menu **04**.



4. Press the **PROG** button to enter Program Menu **04**.



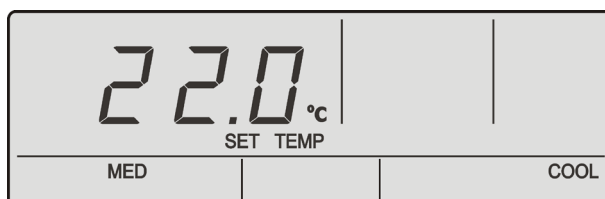
NOTE


Mode lock is Off by default.

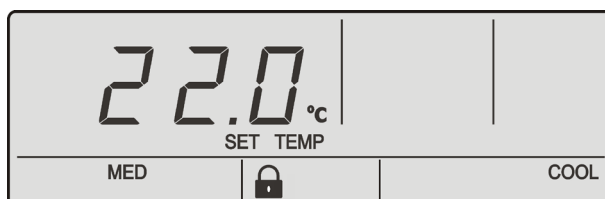
5. Press the   or  buttons to turn the Mode lock **ON**.



6. Press the **PROG** button to accept the selection.
7. Press the **EXIT** once to go back to the Main Screen.



8. When the **MODE** button is pressed. The  symbol will appear for 3 seconds and user won't be able to change mode.



NOTE

To disable Mode Lock, follow the same steps above. However, in step 5 select **OFF**.

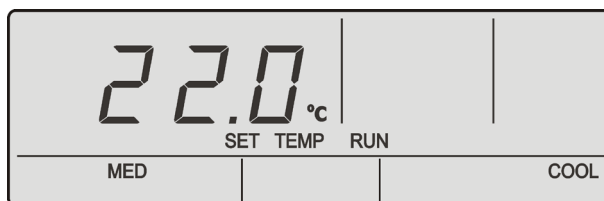
14.05. Setpoint Lock

NOTE

- Setpoint Lock will prevent user from changing the setpoint on wall controller.
- Setpoint Lock may be set independently on each wall controller connected.

14.05.01. Activating Setpoint Lock

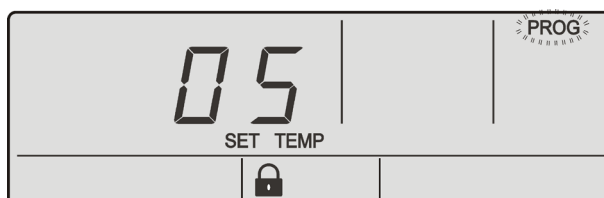
1. Set the setpoint based on the desired target temperature.



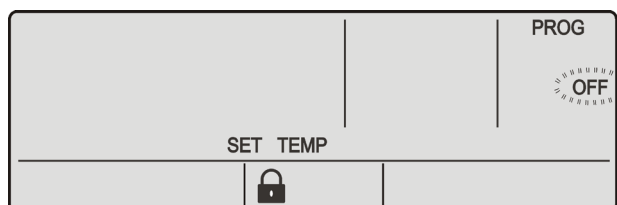
2. Press the **PROG** button to enter program Menu.



3. Press the   or  buttons to navigate to Program Menu **05**.



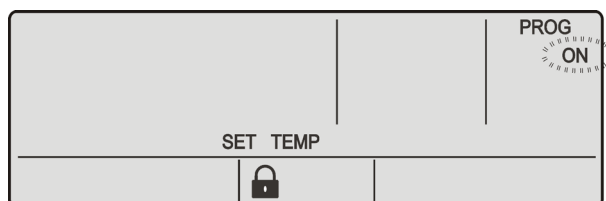
4. Press the **PROG** button to enter Program Menu **05**.



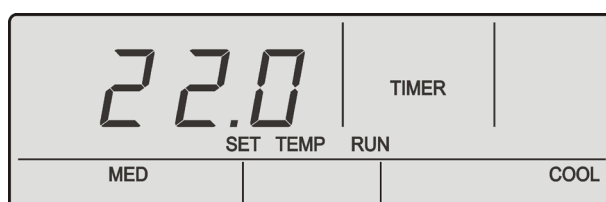
NOTE


Setpoint lock is **OFF** by default.

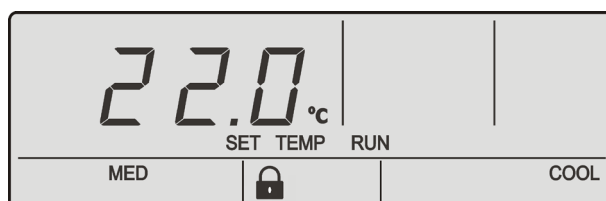
- Press the   or  buttons to turn the setpoint lock **ON**.



- Press the **PROG** button to accept the selection.
- Press the **EXIT** button once to go back to main Screen



- When the   or  buttons is pressed. The  symbol will appear for 3 seconds and user will not be able to change set temp.



NOTE

To disable setpoint Lock, follow same steps above. However, in step 5 select **OFF**.

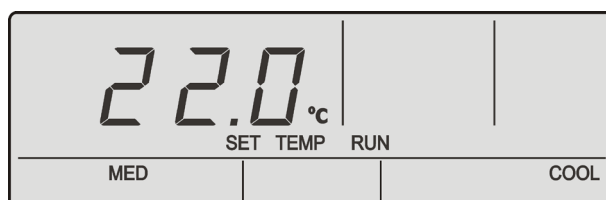
14.06. Fan Speed Lock

NOTE

- Fan Speed Lock will prevent user from changing the fan speed on wall controller.
- Fan Speed Lock may be set independently on each wall controller connected.

14.06.01. Activating Fan Speed Lock

- Set the required fan speed you wish to lock.



- Press the **PROG** button to enter Program Menu



- Press the or buttons to navigate to Program Menu **06**.



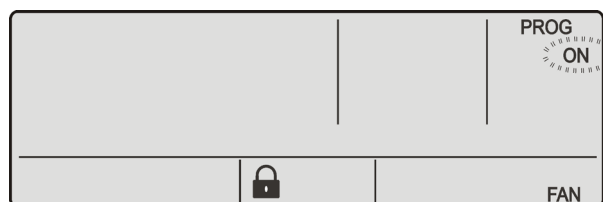
- Press the **PROG** button to enter Program Menu **06**.



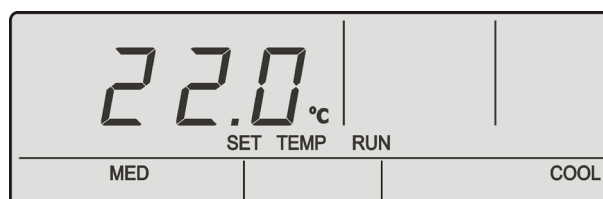
NOTE


Fan speed lock is Off by default.

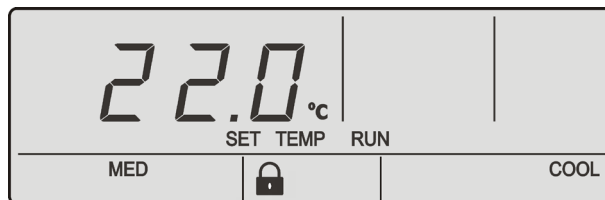
- Press the or buttons to turn the fan lock **ON**.



- Press the **PROG** button to accept the selection.
- Press the **EXIT** button once to go back to the main Screen



- When the **FAN** button is pressed, the  symbol will appear for 3 seconds and user won't be able to change fan speed.



NOTE

To disable Fan Speed Lock, follow same steps above. However, in step 5 select **OFF**.

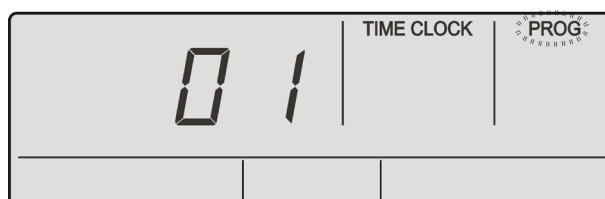
14.07. Keypad Lock

NOTE

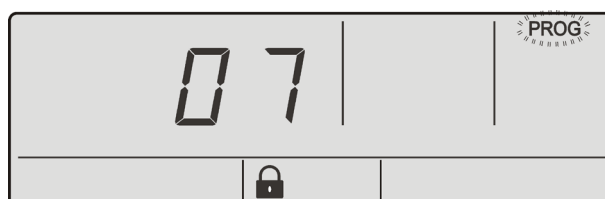
- Keypad Lock will prevent user from changing the setpoint on wall controller.
- Keypad Lock may be set independently on each wall controller connected.

14.07.01. Activating Keypad Lock

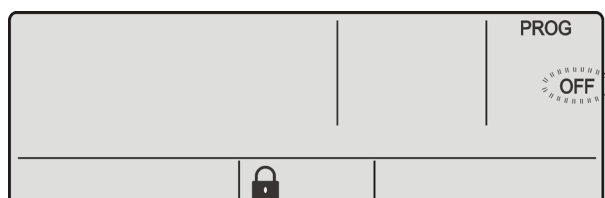
- Press the **PROG** button to enter program Menu



- Press the  or  buttons to navigate to Program Menu **07**.



- Press the **PROG** button to enter Program Menu **07**.



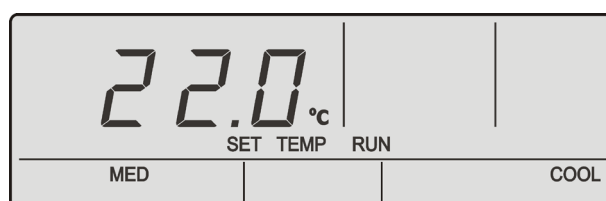
NOTE

Keypad lock is Off by default.

- Press the   or  buttons to turn the Keypad lock **ON**.



- Press the **PROG** button to accept the selection.
- Press the **EXIT** button once to go back to the main Screen



- When any button is pressed (EXCEPT **PROG**, **DISP**, **AFTER HRS** and   or , the  symbol will appear for 3 seconds and user won't be able to access any of those buttons.

NOTE

To disable Keypad Lock, follow same steps above. However, in step 5 select **OFF**.

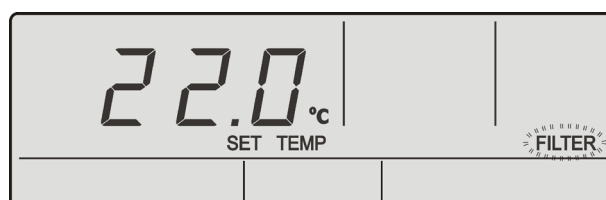
15. Filter Timer


15.01. Reset Filter Timer

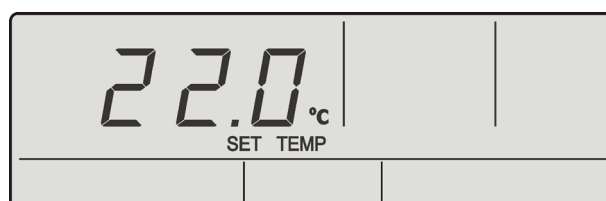
NOTE

Ensure control is turned OFF before proceeding to resetting Filter Timer

- Screen flashes **FILTER** when timer expires.




- After cleaning the filter, press the  button to reset the timer. Flashing **FILTER** display will disappear.



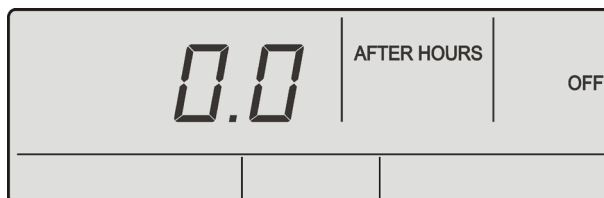
16. After Hours

NOTE

- **AFTER HOURS** status is disabled (OFF) by default.
- For the **AFTER HOURS** run timer to operate, the **TIME CLOCK** operation has to be enabled.
- If the **AFTER HOURS** run timer overlaps with the scheduled **TIME CLOCK** event **ON**, the unit will continue running with **AFTER HOURS** indicator displayed on the screen. Once the overlapped **AFTER HOURS** run timer expires, the control will turn **OFF** until the  button is pressed again of the next scheduled **ON** event occurs.
- If the **AFTER HOURS** run timer expires earlier than the current **TIME CLOCK** event **ON**, the unit will continue operating to the current **TIME CLOCK** schedule.

16.01. Turning on/off and Setting After Hours Function

1. Press the **AFTER HRS** button. After hours timer, **AFTER HOURS** and **OFF** indicators will be displayed.



2. Press the   or  buttons to select **ON** or **OFF**.




NOTE

For this example, **AFTER HOURS** timer will be turned **ON** and set to 2 hours.



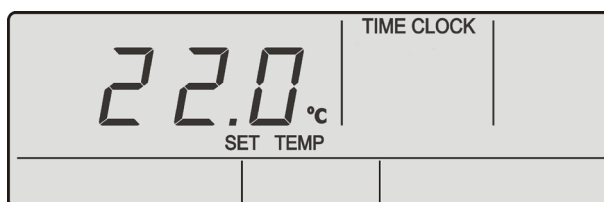
3. Press the **PROG** button. **AFTER HOURS** will begin blinking.



- Press the   or  buttons to increase / decrease **AFTER HOURS** timer in 0.5 hour (30 minute) increments.




- Press the **PROG** button to accept changes.

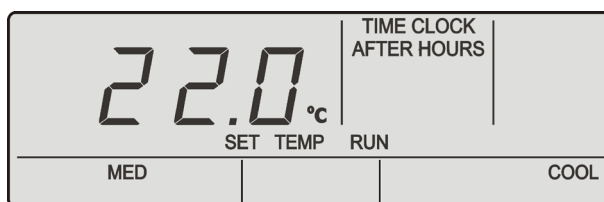
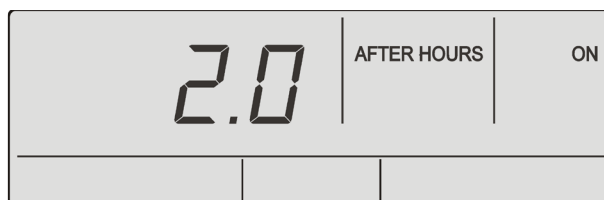


16.02. Activating After Hours Function


NOTE

To disable After Hours , follow the same step above. However, in step 2 select **OFF**.

- Press the **AFTER HRS** button or the  button. AFTER Hours timer and **ON** will be displayed for 3 seconds. Once 3 seconds expires, the after hours function will now be active.



NOTE

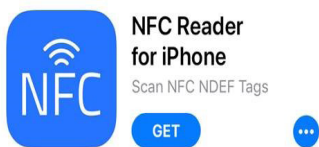


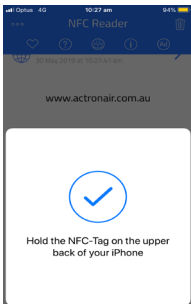
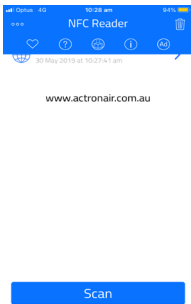
- To cancel an active **AFTER HOURS** function, or if you decide to cancel After Hours before the due time, press the  button - unit will turn off as well as the after hour function.
- If **AFTER HOURS** is cancelled during a time clock schedule, the **AFTER HOURS** indicator will disappear and, system will operate based on the time clock schedule.
- During the setting of **AFTER HOURS**, if no button is pressed for 5 seconds, user will be returned to the home screen.

17. Near Field Communication (NFC) Tag

LC7-2 is NFC capable that allows the user to view and download the user manual. There are a wide variety of NFC reader Apps, below NFC Reader for Iphone is an example of one App that can be used.

17.01. iOS Users

Note: Images may vary from those shown below.

<p>1. Go to App Store and download NFC Reader for Iphone.</p> 	<p>2. Open NFC App. Read through NFC App Information and Click on Let's get started.</p> 	<p>3. Place the mobile device close to NFC Tag on the control. Follow the instructions on App.</p> 
<p>4. Once the tag has successfully scanned the image below will appear.</p> 	<p>5. A pop-up window will appear to redirect you to https://www.actronair.com.au/nfc</p> 	

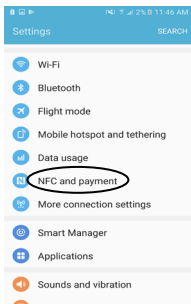
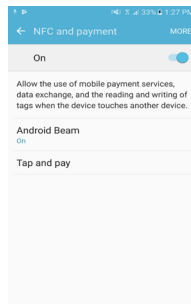
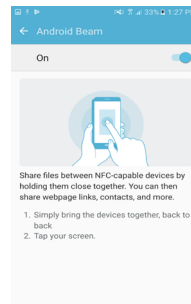
6. List of Control Models will appear on the screen of your mobile device.

Select the model number of your control to view the operation manual.

Note: The Model number of your control can be found underneath the Power On/Off button of the control.

17.02. Android Users

Note: Images may vary from those shown below.

<p>1. Go to Settings and look for NFC and payment. Press ON to activate NFC.</p> 	<p>2. Press Android Beam</p> 	<p>3. Follow the on-screen instructions.</p> 
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4. Once successfully scanned, a pop-up window will appear to redirect you to external website.
<https://www.actronair.com.au/nfc>

5. List of Control Models will appear on the screen of your mobile device.
 Select the model number of your control to view the operation manual.

Note: The Model number of your control can be found underneath the Power On/Off button of the control.

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ActronAir is constantly seeking ways to improve the design of it's products, therefore specifications are subject to change without notice.

Operation Manual - LC7-2 Wall Control
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