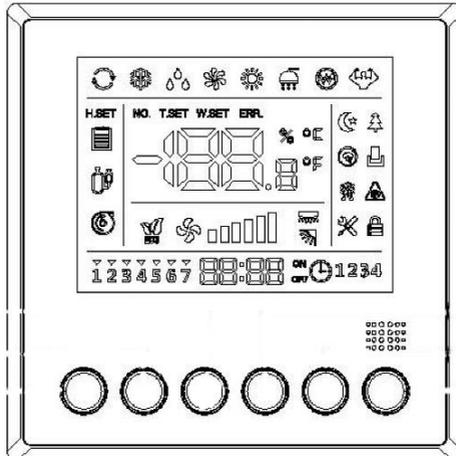




# USER MANUAL



## WIRED CONTROLLER

TCL-WiredCasCtrl

Read these instructions carefully and keep them safe for future reference.

## **CONTENTS**

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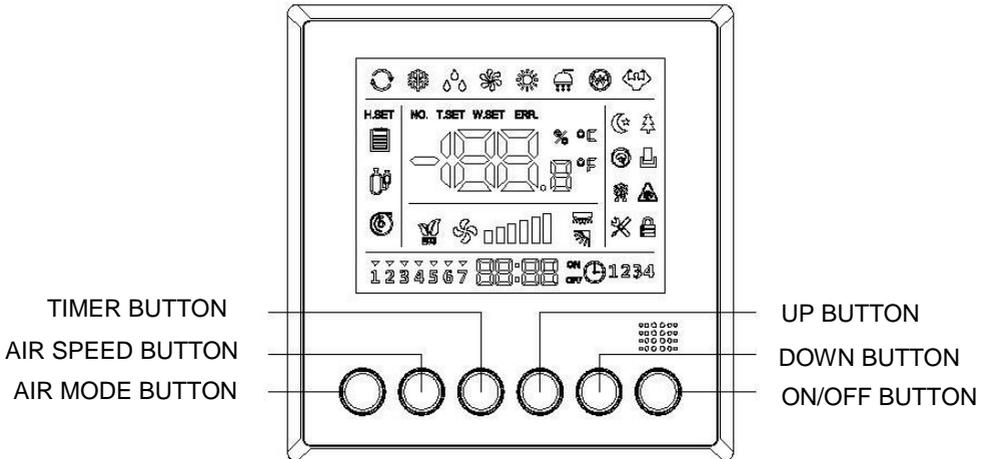
## **SAFETY WARNINGS**

- Before attempting installation, the Installation Manual must be fully read and understood.
- Check the product model and specification to ensure they meet the requirements of the appliance before installation.
- When choosing a suitable position for installation, consideration should be made to avoid external influences which may damage the unit, shorten its life, or make the unit unsafe. Places to avoid include:
  1. Areas in the vicinity of flammable gasses.
  2. Areas where the unit may be splashed by liquids or oils.
  3. Areas likely to experience extremes of temperature.
  4. Areas exposed to high levels of electromagnetic radiation.
  5. Any place with high levels of humidity.
- This unit is designed to be installed by a professional air conditioning engineer.
- Do not operate this machine with wet hands or allow it to come into contact with water. An electric shock or short circuit may occur.
- Do not attempt to modify or repair the unit. This must only be attempted by a qualified engineer under the instruction of the manufacturer.
- Ensure that the power supply is disconnected from the unit before attempting to open the shell.
- Ensure the interconnecting cables are suitably rated for the application and that they are routed in a way to prevent damage during installation and use.

- This unit is only designed for use with the air conditioners listed. Do not attempt installation with any other equipment without confirmation from the manufacturer.
- Ensure that any fixings used to wall mount the unit are suitable for the type of wall.
- Before drilling holes, care should be taken to avoid any hidden pipework or cables. If in doubt professional advice should be sought.
- Maintenance and repair of this product should only be carried out by a qualified professional.
- Keep this manual safe for future reference or for use by a third party.
- The correct use of this product is detailed in this manual. Failure to follow the instructions may result in damage or injury.
- All installation and service carried out on the appliance must conform to the corresponding local standards, laws and regulations.

**NOTE:** Due to continuous product development, products may not exactly correspond to the illustrations in this manual.

# CONTROL PANEL



# SYMBOL LIST

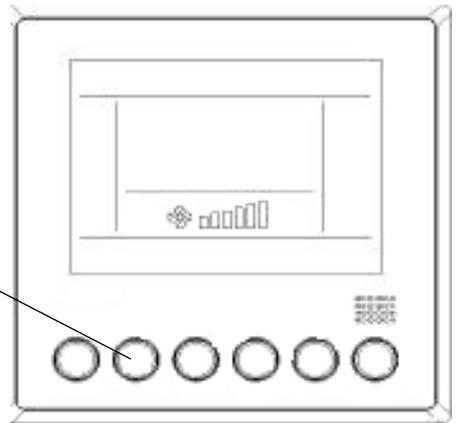
	Sleep		Fresh		Door Card		Defrost
	Anti-freeze		Set		Child Lock		Economic
	Up/Down Swing		Left/Right Swing		Degree centigrade		Fahrenheit
	Electric	<i>ERR.</i>	Error		Water Level		Water Pump Sign
<i>W.</i>	Current Water Temperature	<i>T.</i>	Ambient Temperature	<i>SET</i>	Set Temperature		Compressor
<i>ON</i>	Timer ON	<i>OFF</i>	Timer OFF				

## STARTING UP

- It is necessary to initially power the wired controller on for self-check. All the icons and symbols will turn on for 3 seconds.
- Press the [ON/OFF] button once to start the controller, press again to turn off.
- To check the liquid crystal, press the [ON/OFF] button for 5 seconds and then release. The controller will enter self-check.
- After a buzzer sounds once, the liquid crystal will move from left to right and then go off. The controller will then exit from self-check.

**NOTE:** All buttons are invalid during the self-check.

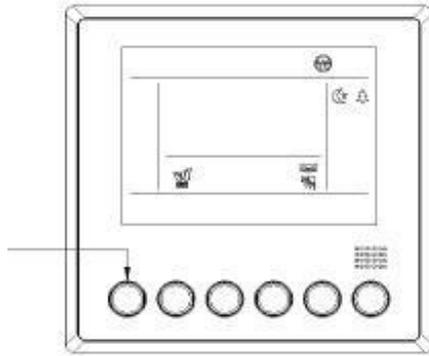
On the start-up interface, press the [Mode] button once when it becomes visible.



- Automatic Mode: The controller with the power-down memory function can be powered on again after being powered down. Check the temperature and then restart automatic mode. If the power-down memory function has not started, the controller will automatically enter standby mode.

## FUNCTION SETTING

Press the MODE button for over 5 seconds to enter function selection. Press the MODE button again to choose your desired mode. The icon for the mode you have chosen will be displayed on the controller, if it is not displayed, repeat the process.



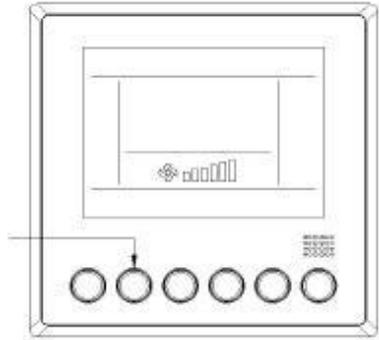
- In certain modes you can increase or decrease the temperature by pressing the [▲]/[▼] these buttons increase or decrease the temperature by 0.5°C.

## Forced Defrosting

- On the start-up interface, set the wire controller to be in heating mode and at a temperature of 16°C. Then finish by following 6 buttons of operations within 5 seconds: “[▲]→[▼]→[▲]→[▼]→[▲]→[▼]”. The system will successfully enter forced defrosting and the buzzer will make 1 long noise.

## AIR SPEED BUTTON

The AIR SPEED button is used to choose between 3 air speeds: Low, Intermediate, High.

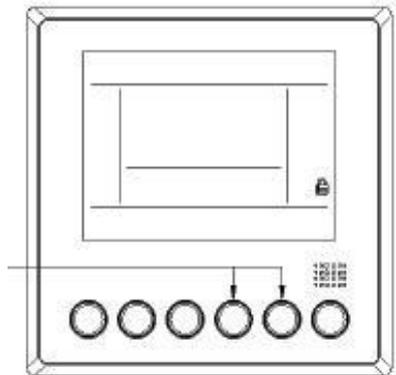


- When the wire controller is initially powered on, its default air speed is low. The icon of low air speed will be displayed.
- If the wire controller is in automatic air setting, the air speed icon will follow the cyclic sequence of: Intermediate, High, Low.
- When the wire controller is set to automatic air, the air speed icon is displayed in the same cyclic sequence.
- If the air speed has been set manually, the wire controller will save your setting the next time you use the mode.

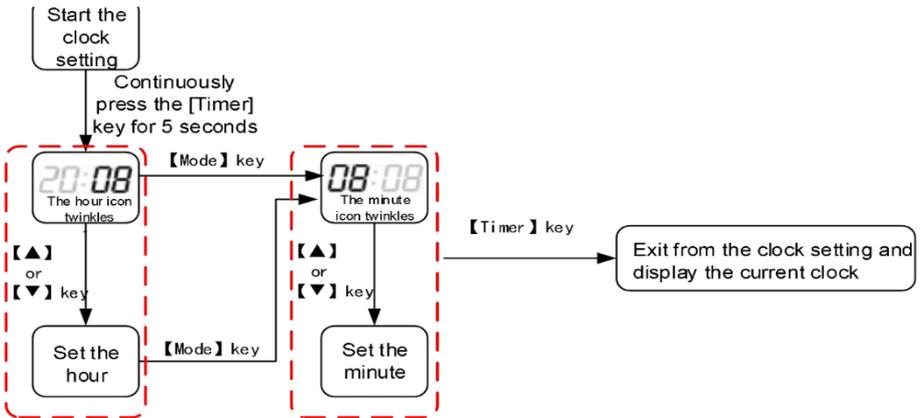
## CHILD LOCK

On the start-up and shutdown interface, press the [▲] and [▼] buttons at the same time for over 5 seconds to enable Child Lock mode, the Child Lock symbol will then be displayed.

When Child Lock is in effect, the operations of other buttons will be invalid until Child Lock is disabled by repeating the process.

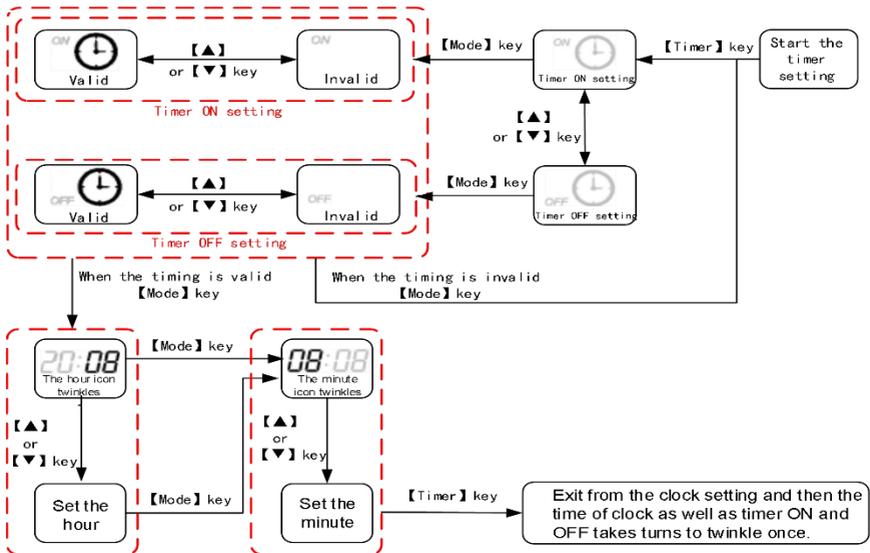


## SETTING THE CLOCK



- Press and hold the timer button for 5 seconds. The hour display will then flash.
- To change the hour, use the [▲]/[▼] buttons to cycle the time, higher or lower. Press the mode button to change to the minutes section, and repeat the process until you have your desired time.
- Press mode again to confirm and then press the timer key to exit from the timer setting menu.

## SETTING THE TIMER



## Parameter Query/Setting

- Hold down the [Mode]+ [▲] buttons for 5 seconds to automatically enter the parameter query interface when the “Time Area-Hour” icon flashes and displays the “Parameter Code” and “Temperature Area” displays the current “Parameter Value” matching the “Parameter Code”.
- When the “Parameter Code” flashes, press the [▲] or [▼] buttons to switch the “Parameter Code”.

Parameter Code	Area Display	Parameter Name	Query the Current Parameter		Query Range
			Value to Query	Area Display	
01	Time Area-Hour	Indoor ambient temperature	Current value	Temperature Area	-30~150
02	Time Area-Hour	Aperture of expansion valve of the indoor unit	Current value	Temperature Area	0~500
03	Time Area-Hour	Temperature at the inlet of evaporator of the indoor unit	Current value	Temperature Area	-30~150
04	Time Area-Hour	Temperature in the middle of evaporator of the indoor unit	Current value	Temperature Area	-30~150
05	Time Area-Hour	Temperature at the outlet of evaporator of the indoor unit	Current value	Temperature Area	-30~150
06	Time Area-Hour	Engineering number of the indoor unit	Current value	Temperature Area	/
07	Time Area-Hour	IP address of the indoor unit	Current value	Temperature Area	/
E1	Time Area-Hour	Historical Error 1	Err+**	Temperature Area	
E2	Time Area-Hour	Historical Error 2	Err+**	Temperature Area	
E3	Time Area-Hour	Historical Error 3	Err+**	Temperature Area	
E4	Time Area-Hour	Historical Error 4	Err+**	Temperature Area	
E5	Time Area-Hour	Historical Error 5	Err+**	Temperature Area	

### Parameter Setting

- Hold down the [Mode]+ [▼] buttons for 5 seconds to automatically enter the parameter query interface. When the “Time Area-Hour” icon flashes and displays the “Parameter Code” and “Temperature Area” displays the current “Parameter Value” matching the “Parameter Code”.
- When the parameter code flashes, press the [▲] or [▼] key to switch the “Parameter Code”. Press the [Mode] button to stop the “Parameter Code” from flashing and enter the “Parameter Value” changing interface when the “Parameter Value” flashes.

- When the parameter value flashes, press the [▲] or [▼] buttons to change the “Parameter Value”; press the [Mode] button to save the “Parameter Value” and return to the “Parameter Code” flashing interface.

Parameter Code			Query the Current Parameter		Query Range
Parameter Code	Area Display	Parameter Name	Value to Query	Area Display	
P1	Time Area-Hour	The indoor unit corresponding to the wire controller is the indoor unit in the master mode	SL	Temperature Display Area	SL: From the indoor unit
P2	Time Area-Hour	Clearing Away the Master Indoor Unit from the Set	00	Temperature Display Area	00: No action
P3	Time Area-Hour	Address Setting of Two-wire Controller	01	Temperature Display Area	01: Upper computer of RS485 trunk
P5	Time Area-Hour	Power-down memory mode	Off	Temperature Display Area	On: Valid
			on		Off: Invalid
P6	Time Area-Hour	Temperature Unit Conversion	°C	Temperature Display Area	C: degree centigrade
			°F		
P7	Time Area-Hour	Selection of Ambient Temperature Sensing Bag	IL	Temperature Display Area	/
P8	Time Area-Hour	Modification Value of Return-air Temperature Sensing Bag	00	Temperature Display Area	-15°C~15°C
P9	Time Area-Hour	Modification Value of Return-air Temperature Sensing Bag	00	Temperature Display Area	-15°C~15°C
PF	Time Area-Hour	Thermal Aggregation Prevention	00	Temperature Display Area	00~60
PH	Time Area-Hour	Maximum Defrosting Duration	15	Temperature Display Area	00~20

## TROUBLESHOOTING

When there is an issue with the system, the “ERR” icon will be displayed, and the temperature area flashes with the current error or protection code.

Classification	Code	Error Description
Error	E0	The Indoor-outdoor communication goes wrong.
	E1	The Room Temperature Sensor T1 goes wrong.
	E2	The Internal Coil Temperature Sensor T2 goes wrong.
	E3	The External Coil Temperature Sensor T3 goes wrong.
	E4	The outdoor unit goes wrong.
	E5	The model configuration processing (frequency conversion) goes wrong.
	E6	The indoor fan goes wrong and/or the communication between the indoor DC fan and the indoor main control panel goes wrong.
	E7	The Outdoor Temperature Sensor T4 goes wrong.
	E8	The exhaust temperature sensor (TP1 of variable-frequency compressor) goes wrong.
	E9	The variable-frequency module goes wrong.
	EA	The current sensor goes wrong.
	EH	The Return-air Temperature Sensor T5 goes wrong.
	EC	The outdoor communication goes wrong.
	EL	The outdoor low-temperature protection goes wrong.
	EE	The EEPROM goes wrong (The E2 of the outdoor unit goes wrong).
	EF	The outdoor fan goes wrong.
		The wire controller communication goes wrong.
	EP	The temperature switch at the top of compressor goes wrong.
	EU	The voltage sensor goes wrong.
	Eb	The communication between the main control panel and the display panel goes wrong.
	Ed	The EEPROM of main control panel goes wrong (The E2 of the indoor unit goes wrong)
	En	The indoor coil outlet temperature sensor goes wrong.
	b1	The ambient temperature sensor goes wrong.
	b2	The inlet pipe temperature sensor goes wrong.
	b3	The middle temperature sensor goes wrong.
	b4	The outlet pipe temperature sensor goes wrong.
	b5	The humidity sensor goes wrong.
	b6	The water temperature sensor goes wrong.
	b7	The indoor EEPROM goes wrong.
	b8	The swing motor goes wrong.
	b9	The MAC address of the indoor unit is abnormal.
	bA	The model dial is wrong.
	H0	The outdoor unit goes wrong (including protection) in an all-round way.

<b>Classification</b>	<b>Code</b>	<b>Error Description</b>
Error	C0	The CAN communication goes wrong in an all-round way.
	C1	Multiple main control panel errors
	C2	The number of outdoor unit modules is abnormal (Deficiency/increase)
	C3	The communication between the main control panel and the variable-frequency compressor drive goes wrong.
	C4	The communication between the main control panel and the variable-frequency fan drive goes wrong.
	C5	The communication between the indoor unit and the wire controller goes wrong.
Protection	P0	Module protection
	P1	Over/Under-voltage protection
	P2	Over-current protection (Variable-frequency compressor)
	P3	Outdoor unit protection
	P4	Exhaust high-temperature protection (Variable-frequency compressor or Slave F3)
	P5	Under-cooling protection in the cooling mode (Indoor unit coil temperature protection)
	P6	Over-heating protection in the cooling mode (Condenser high-temperature protection)
	P7	Over-heating protection in the heating mode (Indoor unit coil temperature protection)
	P8	Outdoor high/low-temperature protection
	P9	Drive protection (load abnormal)
	PA	The modes conflict and the top air-out board communication goes wrong.
	d1	Indoor fan protection
	d2	Auxiliary electric heating protection
	d3	Water full protection
	d4	Anti-freezing protection
	d5	The modes conflict.
d6	The IP address of the indoor unit is abnormal.	
d7	The capacity dial is wrong.	
d8	The engineering numbers conflict.	

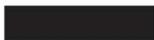
## electriQ UK Support.

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[www.electriQ.co.uk](http://www.electriQ.co.uk)

Unit J6, Lowfields Business Park  
Lowfields Way, Elland  
West Yorkshire, HX5 9DA

### PRODUCT DISPOSAL



Do not dispose this product as unsorted municipal waste. Collection of such waste must be handled separately as special treatment is necessary.

Recycling facilities are now available for all customers at which you can deposit your old electrical products. Customers will be able to take any old electrical equipment to participating civic amenity sites run by their local councils. Please remember that this equipment will be further handled during the recycling process, so please be considerate when depositing your equipment.

Please contact the local council for details of your local household waste recycling centers.