

# **ETC-974 Operation Instructions**

#### 1. Working conditions:

- 1.1. Power supply: 230VAC±10% 50/60Hz
- 1.2. Rated current of the relays (refrigeration, defrost and fan): 8A/220VAC
- 1.3. Use temperature: -5°C ~ 55°C Relative humidity: 10% ~ 90% RH (not condensing)
- 1.4. Storage temperature: -30°C ~ 85°C

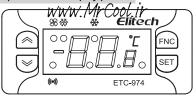
#### 2. Specification:

- 2.1. Product: Length 77× Width 34.5 × Depth 58 (mm)
- 2.2. Mounting size: Length 71 × Width 29 (mm)
- 2.3. Probe wire length: 2M (including the probe)

3. Technical Parameters: WWW.MrCool ir

- 3.1. Temperature controlling range: NTC probe: -50...110°C (-58...230°F) PTC probe: -55...140°C (-67...284°F)
- 3.2. Display resolution: 1°C/0.1°C (With the switch mode between integer and decimal)
- 3.3. Accuracy: NTC: ±0.5°C (-30°C-50°C), others, ±1°C PTC: ±1°C (-30°C-50°C), others, ±2°C
- 3.4. Probe type: NTC (-50°C~120°C) PTC (-50°C~150°C)

## 4. Operation and display panel:



FNC key: Exit SET key: Set

≈ key: Up ≈ kev: Down

Position	Related Function	Status
*	Compressor	ON when the compressor is started up; blinking in case of delay, protection or blocked enabling
***	Defrost	ON when defrosting; blinking in case of manual enabling
((•))	Alarm	ON when the alarm is enabled; blinking when the alarm is silenced
98	Fans	ON when the fan is working

### 5. Controller parameters and operation:

5.1. Set the temperature setpoint

To access the user menu, press and quickly release the "set" key. If alarms are not present, the label "SEt" appears. By using the "UP" and "DOWN" keys you can scroll through the other folders in the menu:

-Pb1: probe 1 value folder; -Pb2: probe 2 value folder; -SEt: Setpoint setting folder.

The step of setting the temperature is as below:

- 5.1.1. When it displays the measured temperature in the display panel, press SET key, it will display Set.
- 5.1.2. At this time, press SET key, you could view the current temperature setpoint.
- 5.1.3. Press ≈ key or ≈ key to modify the setpoint.
- 5.1.4. Press FNC key, it will display the measured temperature, and exit from the temperature setting. If high/low temperature alarm happens, user could inquiry alarm type through parameter folders "AL".

#### 5.2. Parameter setting

ETC-974 has classifies all parameters into seven folders according to the objects and functions; CP, Def. FAn、AL、diS、CnF、FPr. the method to enter the folder is as below:

- 5.2.1. When it displays the measured temperature in the display panel, press SET key for at least five seconds, it will display the first parameter folder code CP.
- 5.2.2. At this time, press SET key, it enters the parameter folder CP, and it will display the first parameter diF.
- 5.2.3. Press ≈ key or ≈ key, it will display all parameters under the folder of CP in circulation.
- 5.2.4. If need to view or modify one of the parameters, when it displays the parameter code in the display panel, press SET key to view the parameter setpoint, and then press  $\approx$  key or  $\approx$  key to modify the setpoint.
- 5.2.5. Press FNC key, it will exit from the parameter folder of CP, and it will restore to display the parameter CP. Press FNC, it will restore to display the measured temperature value and exit from parameter setting.

- 5.3. Enter the parameter folders of Def FAn AL diS CnF FPr
  - 5.3.1. When it displays the first parameter folder code CP, press ≈ key or ≈ key, it will display each parameter folder code in circulation.
  - 5.3.2. Select the desired parameter folder code and press SET key, and it will display first parameter of the current parameter folder.
  - 5.3.3. The method to view, modify and exit the parameter value will be the same as above.

#### 5.4. Copy card

ETC-974 provides a copy card interface, if the user has Elitech copy card, it could conveniently set the parameters in batch.

The activation of copy key functions: When it displays the parameter code UL/dL/Fr, press SET key, if the function of UL/dL/Fr is activated, it displays "y"; if not activated, it displays "n".

If the function of dL is activated, the instrument will work according to the new parameters.

If the function of Fr is activated, the default parameters of the instrument will be downloaded to the copy card. Note: Insert the copy card when the power is switched off, and then switch on the power, the instrument will download the data of the copy card. If it is successfully loaded, it will display "dLY" for five seconds: If loading in failure, it will display "DLn" for five seconds.

5.5. Manual activation of the defrosting cycle

To manually activate the defrosting cycle, press the "UP" key for 5 seconds. If defrosting conditions are not present, (for example the evaporator probe temperature is higher than defrost stop temperature), and the display will blink three times, in order to indicate that the operation will not be performed.

#### 5.6. Password setting

ETC-974 has a parameter PA1 which permits user setting a number as the password to enter the parameter folders. In this way, if uses press SET key for five seconds, it will not display the first parameter folder CP, instead, it displays parameter code PAI. Press SET key and then press ≈ key or ≈ key, input the correct password, it will display parameter folder CP. Other operation is the same as "parameter setting".

#### 5.7 Alarm codes

5.7.1. E1: Probe 1 in failure

5.7.2. E2: Probe 2 in failure

Note: If simultaneous, they will be showed on the display alternately, every 2 seconds,

5.7.3. EE: Eeprom data storage error

5.7.4. AH1: High temperature alarm

5.7.5. AL1: Low temperature alarm

Note: To silence alarms press any key.

#### 6. Parameter table:

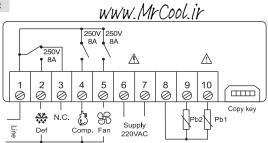
	COMPRESSOR REGULATOR (folder with "CP" label)						
	Parameter code	Description Description	Set range	Default value	Unit		
1	diF	diFferential. Relay compressor tripping differential. The compressor stops on reaching the Setpoint value (as indicated by the adjustment probe), and restarts at temperature value equal to the Setpoint plus the value of the differential. Note: the value 0 cannot be assumed.	(0.130.0)	2.0	°C/°F		
2	HSE	Higher SEt. Maximum possible setpoint value.	(LSE302)	99.0	°C/°F		
3	LSE	Lower SEt. Minimum possible setpoint value.	(-55.0HSE)	-50.0	°C/°F		
4	Ont	On time (compressor). Compressor activation time in the event of faulty probe. If set to "1" with Oft at "0" the compressor is always on, while at Oft >0 it functions always in duty cycle mode.	(0 250)	0	min		
5	OFt	OFF time (compressor). Compressor in disabled state time in the event of a faulty probe. If set to "1" with Ont at "0" the compressor is always off, while at Ont >0 it functions always in duty cycle mode.	(0 250)	1	min		
6	dOn	delay (at) On compressor. Delay time in activating the compressor relay after switch-on of instrument.	(0 250)	0	S		
7	dOF	delay (after power) OFF. Delay after switch off; the indicated time must elapse between switch-off of the compressor relay and the successive switch-on.	(0 250)	0	min		
8	dbi	delay between power-on. Delay between switch-ons; the indicated time must elapse between two successive switch-ons of the compressor.	(0 250)	0	min		
9	OdO	delay Output (from power) On. Delay time in activating the outputs after switch-on of the instrument or after a power failure.	(0 250)	0	min		

Parameter   Description			DEFROSTING REGULATOR (folder with "dEF" label)			
		Parameter	Description		Default	Unit
10	$\vdash$	code	defrost type. Type of defrosting	range	value	
1			** **	-		
11   dit   defrost interval time. Interval between the start of two successive defrosting operations.   (0250)   6   hours	10	dtY		(02)	0	number
11   dit				-		
Online			, , ,			
defrost Counting type. Selection of count mode for the defrosting interval.	11	dit		(0250)	6	hours
12   dCt	$\vdash$					
1				(0 2)	1	number
2 = compressor stop.	12	dCt				
13   dOH						
time from start up of instrument. (059) 0 min  defrost Endurance time. Defrosting time-out; determines duration of defrosting.  defrost (at) Power On. Determines if at the start-up the instrument must enter defrosting (if the temperature measured by the evaporator probe).  defrost (at) Power On. Determines if at the start-up the instrument must enter defrosting (if the temperature measured by the evaporator probe).  FANS REGULATOR (folder with "FAN" label)  Fan Stop temperature. Fan lock temperature; if the value, read by the evaporator probe, is higher than the set value, fans stop.  FAM Fan differential. Fan starting differential (see par, "FSt").  Fan Glop temperature. Fan lock temperature; if the value, fans stop.  FAM Fan delay time in activating fans after a defrost operation. (0250).  dt drainage time. Dripping time.  defrost Fan disable. Allows to select the evaporator probes exclusion during defrost. y = yes; n = no.  Fan Compressor OFF. Allows to select ompressor fans lock OFF (switched off).  y = fans activated (with controller; based on the value read by the defrost probe see parameter "FSt"),  a = fans off; dc = not used  ALARMS (folder with "AL" label)  ALARMS (folder with "AL" label)  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint) which if exceeded in an upward direction, triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction,						
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19 Fdt Fan delay time. Delay time in activating fans after a defrost operation. (0250) 0 min drainage time. Dripping time. (0250) 0 min defrost Fan disable. Allows to select the evaporator probes exclusion during defrost. y = yes; n = no.  Fan Compressor OFF. Allows to select compressor fans lock OFF (switched off).  Y = fans activated (with controller; based on the value read by the defrost probe, see parameter "FSt"); n = fans off; dc = not used  ALARMS (folder with "AL" label)  AFd Alarm Fan differential. Alarm differential. (1050.0) 2.0 °C/°F HALC (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Lower ALarm. Maximum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure. (010) 0 hours after instrument switch on, after a power failure. (010) 0 hours Ala tAO defrost Alarm Override. Alarm exclusion time after defrost. (0999) 0 min DISPLAY (folder with "dis" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters. (0250) 0 number the access key for level 1 parameters. (0250) 0 number CAII and number display type. View with decimal point. y = yes; n = no.  CAII CAIIbration 1. Calibration 1. Positive or negative temperature (120120) 0 °C/°F	17	FSt	read by the evaporator probe, is higher than the set value, fans stop.	(-50.0 150.0)	2.0	0, 1
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defrost Fan disable. Allows to select the evaporator probes exclusion during defrost. y = yes; n = no.  Fan Compressor OFF. Allows to select compressor fans lock OFF (switched off).  y = fans activated (with controller; based on the value read by the defrost probe, see parameter "FSt");  n = fans off; dc = not used  ALARMS (folder with "AL" label)  Alarm Fan differential. Alarm differential. (1050.0) 2.0 °C/°F  HAL (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Dewer-on Alarm Override. Alarm exclusion time after defrost. (50.0HAL) -50.0 °C/°F (5	19	Fdt	Fan delay time. Delay time in activating fans after a defrost operation.	(0250)	0	min
FCO  FCO  FAN Compressor OFF. Allows to select compressor fans lock OFF (switched off).  y = fans activated (with controller; based on the value read by the defrost probe, see parameter "FSt");  n = fans off;  dc = not used  ALARMS (folder with "AL" label)  ALARMS (folder with "AL" label)  Alarm Fan differential. Alarm differential.  Higher ALarm. Maximum temperature alarm. Temperature value (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Lower-ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Dever-on Alarm Override. Alarm exclusion time after defrost.  AdO defrost Alarm Override. Alarm exclusion time after defrost.  AdO defrost Alarm Override. Alarm exclusion time after defrost.  AdO defrost Alarm Override. Alarm exclusion time after defrost.  BISPLAY (folder with "dis" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PAssword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  CA1 CA2 CA2 CA1	20	dt	drainage time. Dripping time.	(0250)	0	min
Probes exclusion during derrost. y = yes; n = no.  Fan Compressor OFF. Allows to select compressor fans lock OFF (switched off).  y = fans activated (with controller; based on the value read by the defrost probe,see parameter "FSt"); n = fans off; dc = not used  ALARMS (folder with "AL" label)  3 AFd Alarm Fan differential. Alarm differential. Higher ALarm. Maximum temperature alarm. Temperature value (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Lower Alarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  Power-on Alarm Override. Alarm exclusion time after defrost. Ado defrost Alarm Override. Temperature alarm signal delay time.  DISPLAY (folder with "dis" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PAssword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  CA1 CA2 CA2 CA3	21	ara.		(0 1		flog
Section   Comparison of the parameter   Comparison of the parame	21	ara	probes exclusion during defrost. y = yes; n = no.	(0-11-1)	У	llay
y = fans activated (with controller; based on the value read by the defrost probe,see parameter "FSt");  n = fans off; dc = not used  ALARMS (folder with "AL" label)  Alarm Fan differential. Alarm differential.  Higher ALarm. Maximum temperature alarm. Temperature value (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  PAO PAO Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  7 dAO defrost Alarm Override. Alarm exclusion time after defrost. (0999) 0 min temperature Alarm Override. Temperature alarm signal delay time.  DISPLAY (folder with "dis" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASsword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  CA1 CA2 CA2 CA3				1 '	V	
by the defrost probe, see parameter "FSt");		FCO				
Dy the derrost probe, see parameter FST.):  n = fans off; dc = not used  ALARMS (folder with "AL" label)  Alarm Fan differential. Alarm differential. Alarm differential. (1.050.0) 2.0 °C/°F  HAL (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  7 dAO defrost Alarm Override. Alarm exclusion time after defrost. (0999) 0 min after temperature Alarm Override. Temperature alarm signal delay time. (0250) 0 min DISPLAY (folder with "dis" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. Y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters. (0250) 0 number not number display type. View with decimal point. Y = yes; n = no. (0=n1=Y) y flag  CA1 CA2 CAIbration 1. Calibration 1. Positive or negative temperature (-120120) 0 °C/°F	22					flag
ALARMS (folder with "AL" label)  Alarm Fan differential. Alarm differential. (1.050.0) 2.0 °C/°F  Higher ALarm. Maximum temperature alarm. Temperature value (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  AdO defrost Alarm Override. Alarm exclusion time after defrost. (0999) 0 min extension time after defrost. (0999) 0 min extension time after defrost. (0250) 0 min extension time after defrost.  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. Y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  CA1 CA2 CAIbration 1. Calibration 1. Positive or negative temperature (-120120) 0 °C/°F				2=dc)	,	9
ALARMS (folder with "AL" label)  Alarm Fan differential. Alarm differential.  Alarm Fan differential. Alarm differential.  Higher ALarm. Maximum temperature alarm. Temperature value (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  PAO Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  AdO defrost Alarm Override. Alarm exclusion time after defrost. (0999) 0 min temperature Alarm Override. Temperature alarm signal delay time.  DISPLAY (folder with "dis" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASsword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  CA1 CA2 CA2 Calibration 2. Calibration 2. Positive or negative temperature  (100250) 0 °C/°F  C/°F  C/C°F  C/°F  C/C°F  C/°F  C/C°F  C/°F  C/C°F  C						
AFd Alarm Fan differential. Alarm differential. (1.050.0) 2.0 °C/°F  Higher ALarm. Maximum temperature alarm. Temperature value (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  PAO PAO Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  AAO defrost Alarm Override. Alarm exclusion time after defrost. (0999) 0 min temperature Alarm Override. Temperature alarm signal delay time.  BISPLAY (folder with "diS" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASsword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  CA1 CA2 CA2 CAIbiration 2. Calibration 2. Positive or negative temperature  (10150.0) 50.0 °C/°F  (LAL150.0) 50.0 °C/°F  (CA2. CA2 CA2 CA2 CA3						
Higher ALarm. Maximum temperature alarm. Temperature value (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after defrost.  AdO defrost Alarm Override. Alarm exclusion time after defrost.  The parameter programming modify them along with the status of this parameter programming modify them along with the status of this parameter in order to allow keyboard locking. Yeyes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  CA1 Calibration 1. Calibration 1. Positive or negative temperature (-120, 120) 0 °C/°F  CA2 Calibration 2. Calibration 2. Positive or negative temperature (-120, 120) 0 °C/°F  Cover.	1		,			
24 HAL (with regard to Setpoint) which if exceeded in an upward direction triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  AdO defrost Alarm Override. Alarm exclusion time after defrost.  Temperature alarm signal delay time.  DISPLAY (folder with "dis" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  CA1 CA2 CA2 CAlibration 2. Calibration 2. Positive or negative temperature  LOC Lock in the access are the activation of the alarm signal.  (LAL150.0) 50.0 °C/°F  °C/°F  **COP**  **C	23	AFd		(1.050.0)	2.0	°C/°F
triggers the activation of the alarm signal.  Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  AdO defrost Alarm Override. Alarm exclusion time after defrost. (0999) 0 min that the parameter Alarm Override. Temperature alarm signal delay time. (0250) 0 min to temperature Alarm Override. Temperature alarm signal delay time. (0250) 1 min to temperature programming modify them along with the status of this parameter in order to allow keyboard locking. Y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  PASSWORD 1. Calibration 1. Calibration 1. Positive or negative temperature (-120120) 0 °C/°F corrections of the status of the constitution of the status of the constitutes of the constitutes the access key for level 1 parameters.  CA2 CA2 CA3	l					
Lower ALarm. Minimum temperature alarm. Temperature value (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after defrost.  AdO defrost Alarm Override. Alarm exclusion time after defrost.  Expected to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after defrost.  (010) 0 hours defrost Alarm Override. Alarm exclusion time after defrost.  (0999) 0 min DISPLAY (folder with "dis" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  PASSWORD 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  CA2 CA2 CA3	24	HAL		(LAL150.0)	50.0	°C/°F
25 LAL (with regard to Setpoint), which if exceeded in a downward direction, triggers the activation of the alarm signal.  26 PAO PAO Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  27 dAO defrost Alarm Override. Alarm exclusion time after defrost. (0999) 0 min  28 tAO temperature Alarm Override. Temperature alarm signal delay time. (0250) 0 min  DISPLAY (folder with "diS" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASsword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  10 PA1 PASsword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  11 ndt number display type. View with decimal point. y = yes; n = no  CA1 Calibration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  CA2 CA2 CA3						
triggers the activation of the alarm signal.  Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  AdO defrost Alarm Override. Alarm exclusion time after defrost.  tag						00.00
PAO Power-on Alarm Override. Alarm exclusion time after instrument switch on, after a power failure.  7 dAO defrost Alarm Override. Alarm exclusion time after defrost.  8 tAO temperature Alarm Override. Alarm exclusion time after defrost.  9 LOC parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  1 ndt number display type. View with decimal point. y = yes; n = no  CAI CAIbration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  CAI CAIbration 2. Calibration 2. Positive or negative temperature (420, 120) 0 **CFF*	25	LAL		(-50.0HAL)	-50.0	°C/°F
26 PAO after instrument switch on, after a power failure.  27 dAO defrost Alarm Override. Alarm exclusion time after defrost.  28 tAO temperature Alarm Override. Temperature alarm signal delay time.  29 LOC parameter programming modify them along with the status of this parameter in order to allow keyboard locking. Yeyes; n = no.  30 PA1 PASsword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  31 ndt number display type. View with decimal point. Yeyes; n = no  CA1 CAIbration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  CA2 CAIbration 2. Calibration 2. Positive or negative temperature  (010) 0 hours  (010) 0 hours  (010) 0 min  (0=n1=Y) n flag  (0=n1=Y) y flag  (0-120120) 0 °C/°F						
dAO defrost Alarm Override. Alarm exclusion time after defrost. (0999) 0 min  8 tAO temperature Alarm Override. Temperature alarm signal delay time. (0250) 0 min  DISPLAY (folder with "diS" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters. (0250) 0 number display type. View with decimal point. y = yes; n = no (0=n1=Y) y flag  CA1 CAIbration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1. (-120120) 0 °C/°F	26	PAO		(010)	0	hours
tAO temperature Alarm Override. Temperature alarm signal delay time. (0250) 0 min    DISPLAY (folder with "diS" label)			· · · · · · · · · · · · · · · · · · ·	` ′		
DISPLAY (folder with "dis" label)  (keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  number display type. View with decimal point. y = yes; n = no (0=n1=Y) y flag  CA1 CAIbration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  CA2 CAIbration 2. Calibration 2. Positive or negative temperature (420, 120) 0 **CFF*	$\vdash$					
(keyboard) LOCk. Keyboard locking. However, you can enter parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  PAssword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  number display type. View with decimal point. y = yes; n = no  CAI bration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  CAI CAI CAI CAIbration 2. Calibration 2. Positive or negative temperature  (-120120)  CAI CAI CAI CAIbration 2. Calibration 2. Positive or negative temperature	28	tAO		(0250)	0	min
29 LOC parameter programming modify them along with the status of this parameter in order to allow keyboard locking. y = yes; n = no.  30 PA1 PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  31 ndt number display type. View with decimal point. y = yes; n = no  32 CA1 CAlibration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  33 CA2 CAlibration 2. Calibration 2. Positive or negative temperature			,			
parameter in order to allow keyboard locking. y = yes; n = no.  PASSWORD 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  Indicentify a parameter in order to allow keyboard locking. y = yes; n = no (0250)  CAI bration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  CAI CAIbration 2. Calibration 2. Positive or negative temperature (420, 120)  CAI CAIbration 2. Calibration 2. Positive or negative temperature				,		
PA1 PAssword 1. When enabled (value other than 0) it constitutes the access key for level 1 parameters.  11 ndt number display type. View with decimal point, y = yes; n = no (0=n1=Y) y flag  12 CA1 CAlibration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  13 CA2 CAlibration 2. Calibration 2. Positive or negative temperature (420, 120) 0 °C/°F		LOC				flag
the access key for level 1 parameters. (0250) 0 number  1 ndt number display type. View with decimal point, y = yes; n = no (0=n1=Y) y flag  1 CA1 CAlibration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  1 CA2 CAlibration 2. Calibration 2. Positive or negative temperature (-120120) 0 °C/°F						
the access key for level 1 parameters.  11 ndt number display type. View with decimal point. y = yes; n = no  12 CA1 CAlibration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  13 CA2 CAlibration 2. Calibration 2. Positive or negative temperature (420, 120) 0 °C/°F		DA 4				numbar
CA1 CAlibration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  CA2 CA2 CA2 CA2 CA2 CA2 CA30 2. Calibration 2. Positive or negative temperature (420, 120) 0.	30	PAT	the access key for level 1 parameters.	(0250)	U	number
CA1 CAlibration 1. Calibration 1. Positive or negative temperature value added to the value read by probe 1.  CA2 CA2 CA2 CA2 CA2 CA2 CA30 2. Calibration 2. Positive or negative temperature (420, 120) 0.	31	ndt	number display type. View with decimal point. y = yes; n = no	(0=n1=Y)	У	flag
value added to the value read by probe 1. (-120120) 0 °C/F  CAS		C / 1				
	32	CAT		(-120120)	U	°C/°F
value added to the value read by probe 2.   (-120120)   0   °C/°F	22	CAS		( 120 120)	0	00/05
	ြသ	CAZ	value added to the value read by probe 2.	(-120120)		C/~F

	Parameter code	Description	Set range	Default value	Unit
34	ddL	defrost display Lock. Viewing mode during defrosting.		1	number
		0 = shows the temperature read by the controller probe;	1		
		1 = locks the reading on the temperature value read by controller probe when defrosting starts, and until the next time the Setpoint value is reached;	(02)		
		2 = displays the label "deF" during defrosting, and until the next time the Setpoint value is reached.			
35	dro	display read-out. Select °C or °F for displaying the temperature read by the controller probe. 0 = °C, 1 = °F. PLEASE NOTE: the switch between °C and °F DO NOT modify setpoint, differential, etc. (for example set=10°C become 10°F).		0	number
		CONFIGURATION (folder with "CnF" label)			
36	H00	Probe type selection, PTC or NTC. 0 = PTC; 1 = NTC.	(01)	1	number
37	H42	Evaporator probe present.	(0=n1=Y)	У	flag
38	rEL	reLease firmware. Device version: read only parameter.	1		
39	tAb	tAble of parameters. Reserved: read only parameter.	/		
		COPY CARD (folder with "Fpr" label)			
40	UL	Up load. Programming parameter transfer from instrument to Copy Card.		/	
41	dL	Down load. Programming parameter transfer from Copy Card to instrument		/	
42	Fr	Format. the default parameters of the instrument will be downloaded to the copy card.		/	

Note: After setting the parameters about timing, it is suggested to power on the instrument again.

# 7. Wiring Diagram:



- ★ Caution:
- Confirm whether the power voltage meets the requirements of controller power supply, or else, the instrument might work improperly even burnout.
- 2. Probe down-leads and power wires should be kept for a proper distance to avoid possible interference.

# Appendix 1 Character Set:



Jiangsu Jingchuang Electronics Co., Ltd.