

**THE
CONTROLLER**

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2026 Product Brochure

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HK-G200



PRODUCT INTRODUCTION

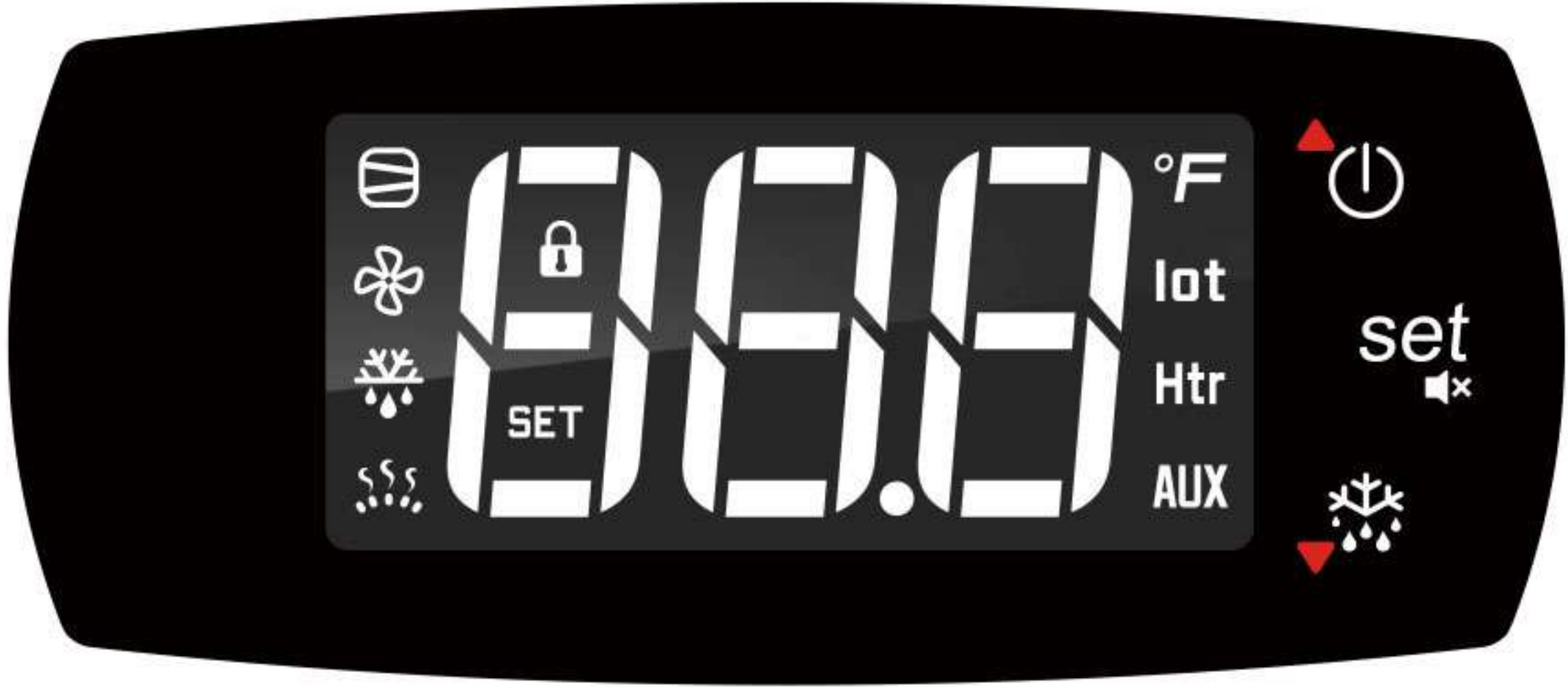
HK-G200 networking module supports multiple networking modes such as WiFi, WiFi+Bluetooth, 4G, WiFi+4G, LAN, etc., and has multiple positioning functions. Currently our phone application can be downloaded from iOS APP Store and Google Play.Users can also achieve remote controlling through web page.Honker IoT solution supports user-customized private cloud service.

TECHNICAL PARAMETERS

Mounting Dimension	90.5*45.5mm
Depth	37 mm (including waterproof cover)
Power supply	DC12V selectable (or universal), ≤2W
Display	Symbol indicator lights
Supported systems	Android, iOS, Windows, etc.
Downloads	Domestic app stores: "HK Safe Sir" on Apple, Xiaomi, Huawei, Honor, VIVO, and OPPO app stores "HK Safe Air" on iOS App Store, "Intelliot" on Google Play.

ATTENTION

- ◆ Do not put the equipment near heat source, strong magnetic equipment, or installed in direct sunlight, rain, wet, dusty, mechanical vibration places
- ◆ If the network signal of the installation environment is poor, the antenna can be led out of the HK-G200



HK-30X / HK-31X

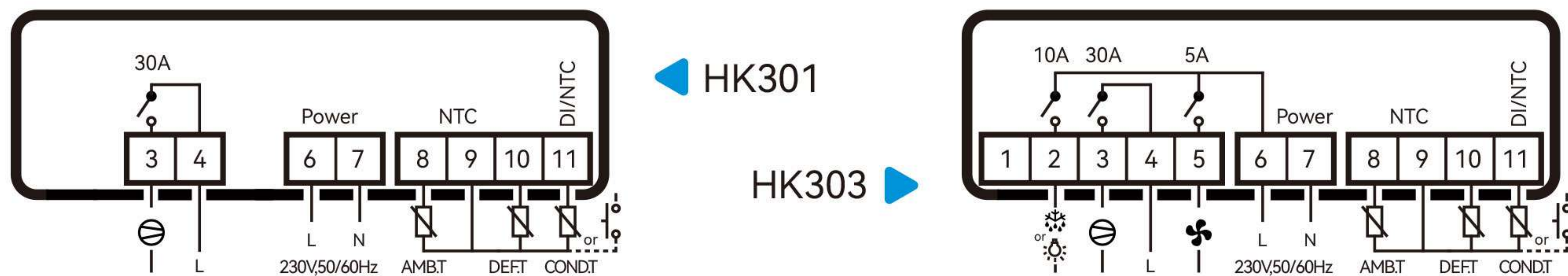


PRODUCT INTRODUCTION

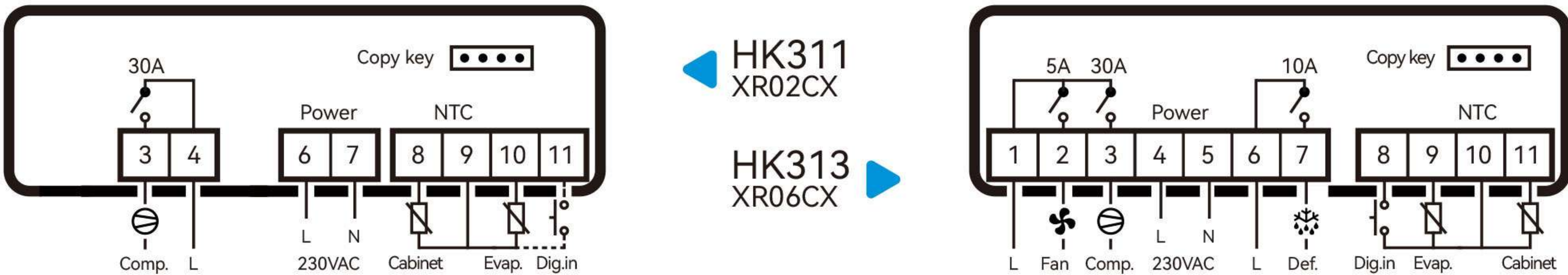
HK-30X is a range with a wide choice of models, including a compact version that is ideal for environments in which space is a crucial element.

HK-30X is the suitable option for simply and effectively managing the complex user cases of refrigeration control. Different needs that crowd the refrigeration world are satisfied with a complete series of HK-31X controllers with an innovative design and intuitive interfaces. Its the energy saving, and innovative functions mark a range of products that includes different fields of cooling world giving a wide range of general purpose solution, for cabinets and rooms, bottle cooler, blast chiller, etc .

WIRING DIAGRAM



Note:For more configuration information,please contact us.



TECHNICAL PARAMETERS

Mounting Dimension	71*29mm
Depth	72.5mm or 96.2mm
Power Supply	110VAC/220VAC(selectable or universal), ≤5W
Display Type	3-digit digital tube with symbol indicators
Temperature Unit	°C or °F
Display Resolution	0.1°C (-19.9 to 90.0°C),1°C (-50.0 to -20.0°C)
Temperature measurement range	-50°C to 90°C (+1°C from -40°C to 50°C, +2°C others)
Connectctor	Screw , blade , plug-in terminals

PRODUCT MODEL INFORMATION

Model	Cool	Def	Fan	Light	Defog	AUX Heating	Room	Def	Condenser	Door	Buzzer	Copy
HK3x1	1.5HP	X	X	X	X	X	√	√	☆	☆	√	√
HK3x2	1.5HP	10A	X	X	X	X	√	√	☆	☆	√	√
HK3x3	1.5HP	10A	5A	X	X	X	√	√	☆	☆	√	

Note: For more configuration information, please contact us.

HK-E1



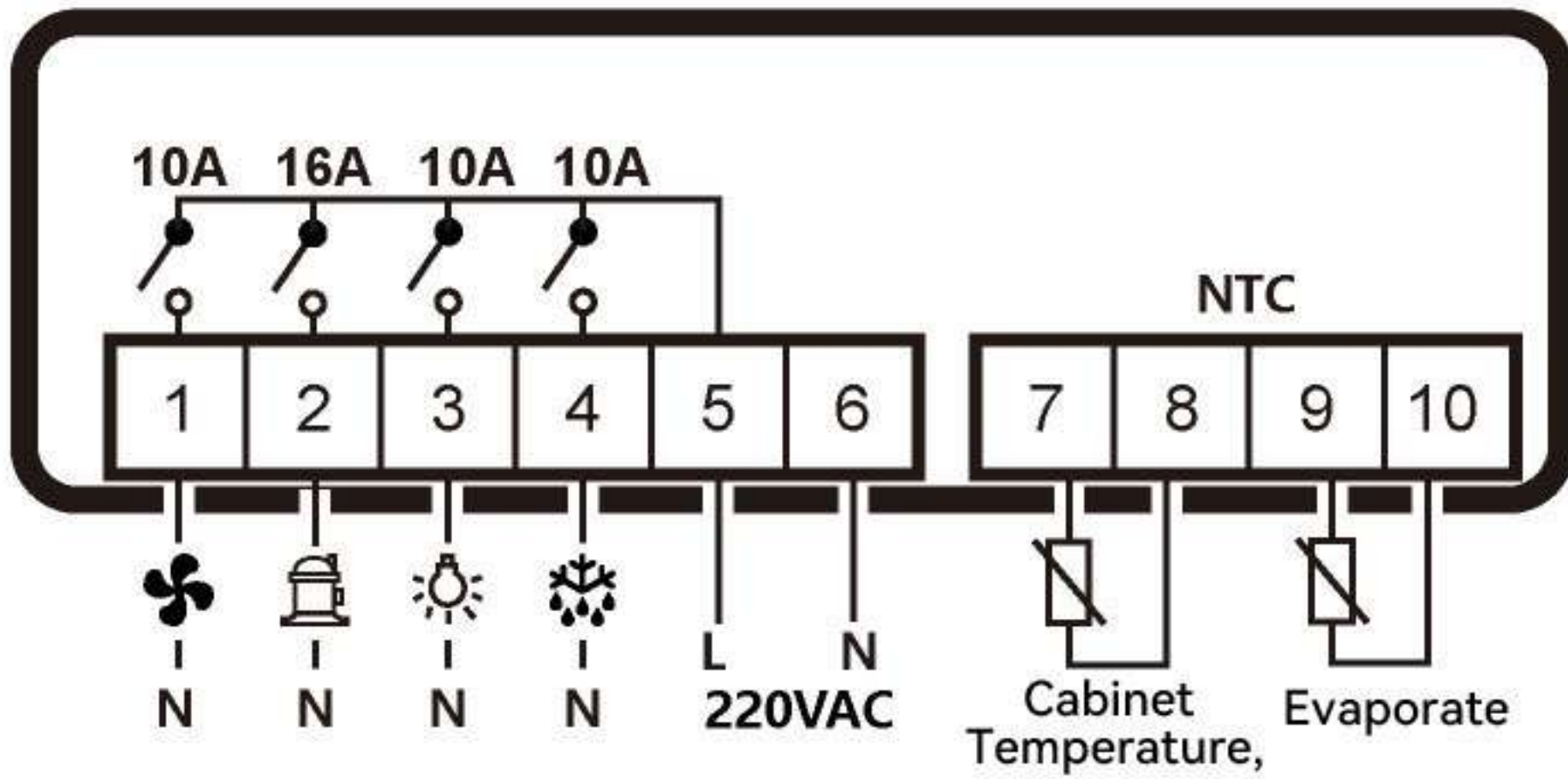
PRODUCT INTRODUCTION

HK-E1 is available in compact version. Its user interface consists of a larger than average custom display, with decimal point and function icons, and four touch keys. It guarantees IP65 protection for easy cleaning. Complete with energy-saving and product keeping quality strategies, the working temperature is systematically recalculated in relation to the product and evaporator temperatures, thus ensuring a guaranteed maintenance of the food stuff temperature.

TECHNICAL PARAMETERS

Mounting Dimension	71*29mm
Depth	64mm
Power Supply	110VAC/220VAC , ≤5W
Display Type	3-digit digital tube with symbol indicators
Temperature Unit	°C or °F
Display Resolution	0.1°C or 1°F
Temperature measurement range	-50°C ~ 90°C, ±1°C (-40°C ~ 50°C), ±2°C (other ranges)
Connecttor	Screw, blade , plug-in, wire

WIRING DIAGRAM



HK-E1

Note: For more configuration information, please contact us.

Universal Controller

HK-9000



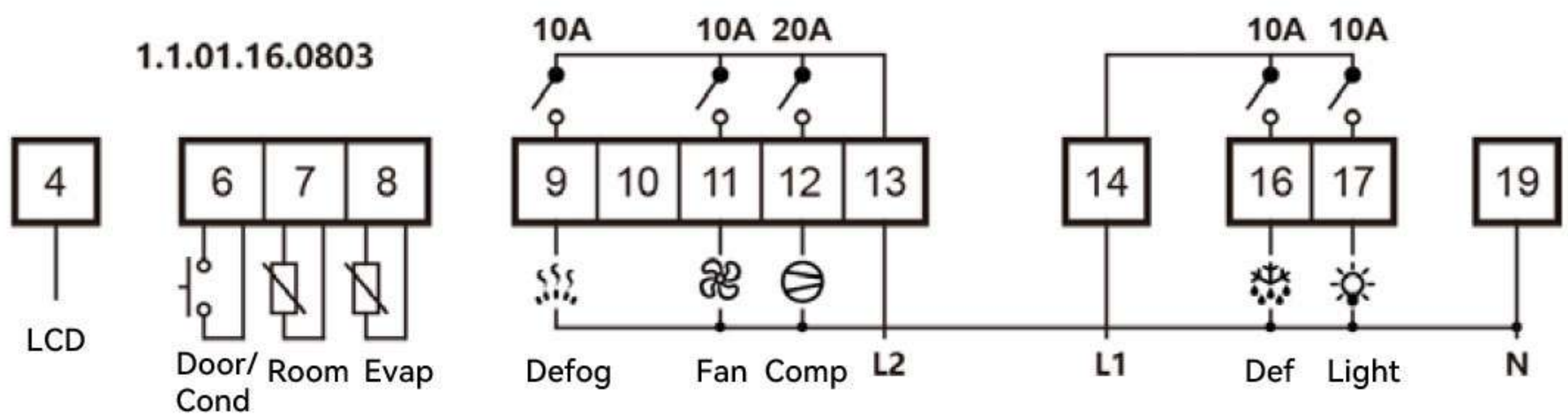
PRODUCT INTRODUCTION

7" large-screen monitor, with high-definition large-screen design, brings a more intuitive and clear interactive experience. Supports multiple inputs and outputs (flexible expansion as needed), multiple optional terminals which can adapt to various devices. With dual system redundant design, the failure of the display module does not affect the core operation of the equipment.

TECHNICAL PARAMETERS

Mounting Dimension	suitable for the standard installation size of 7" screen
Depth	based on the overall structure design, meeting the needs of conventional embedded installation
Power Supply	110VAC/220VAC optional , low power consumption design
Display Type	7" high-definition color screen, supporting multi-interface and multi-parameter visual presentation
Temperature Unit	°C/°F s
Display Resolution	high-definition screen display, accurate display of temperature and other parameters, resolution reaches industrial standards
Temperature measurement range	-50°C~90°C (±1°C at -40°C~50°C, ±2°C for the rest)
Connecttor	screws, blade, plug-ins, wrings

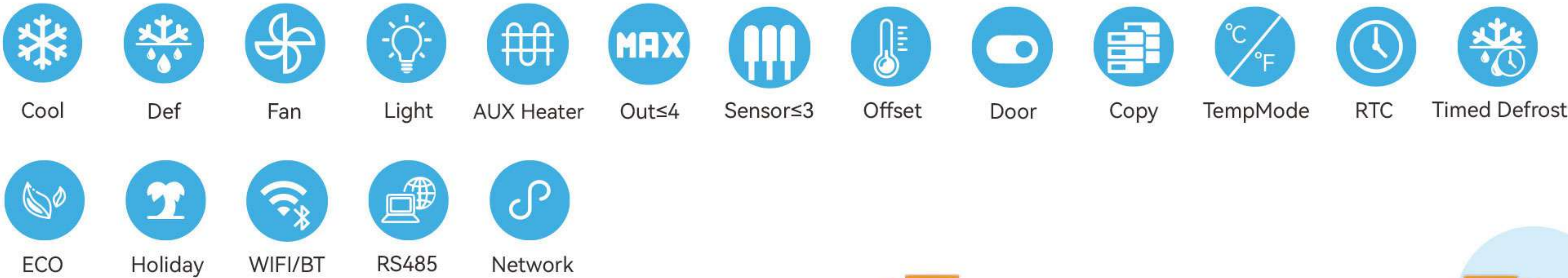
WIRING DIAGRAM



DBL-105

Note: For more configuration information, please contact us.

HK-18X



PRODUCT INTRODUCTION

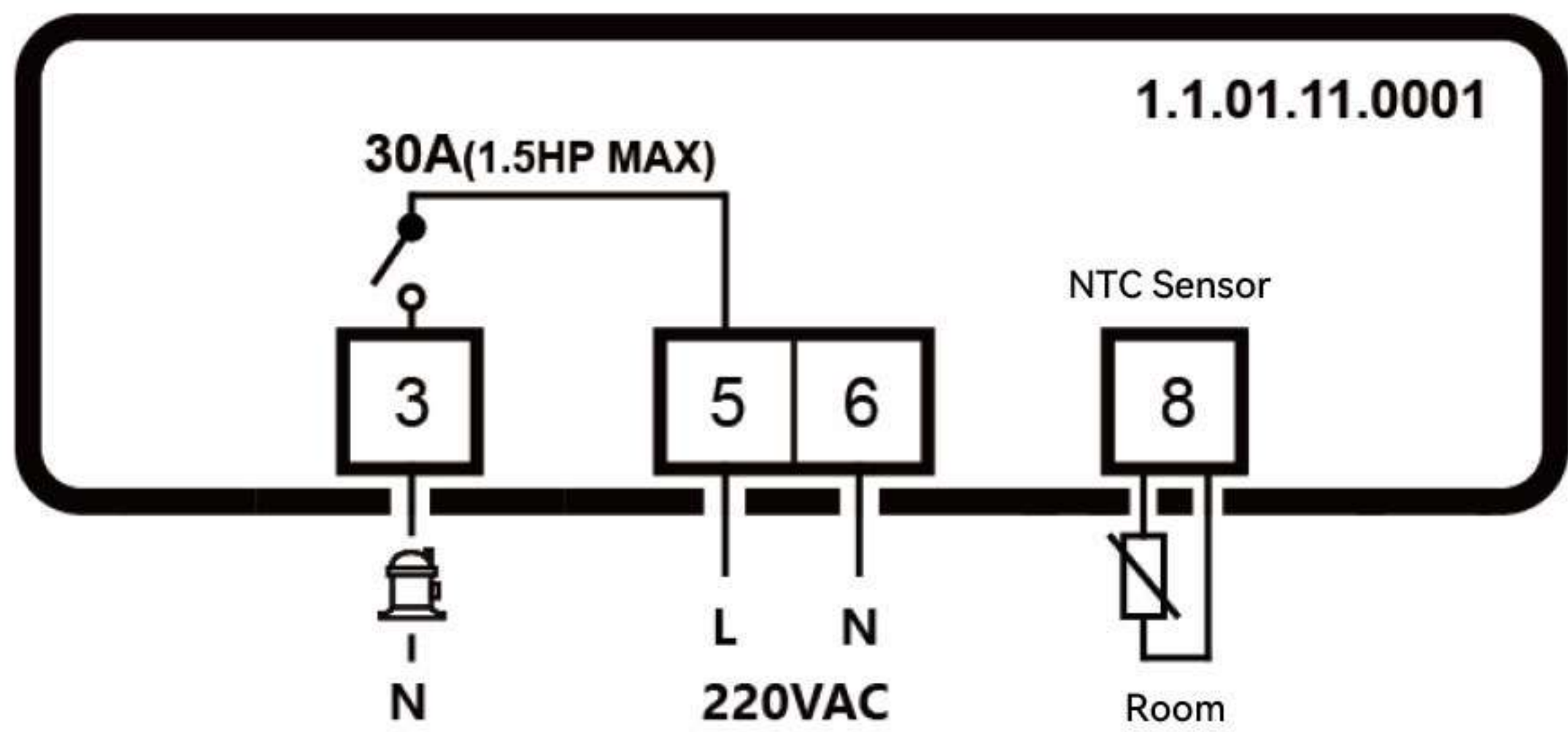
- ◆ Auxiliary Heat: Prevents ice blockage for thorough defrosting.
- ◆ Integrated RTC: Enables timed defrosting.
- ◆ Multiple Modes: Energy Saving, Holiday mode etc., for various applications.
- ◆ Rich IoT & Connectivity: 4 inputs, RS485 (Modbus), WiFi/4G modules..
- ◆ Flexible Connections: Blade, screw, and plug-in terminals.
- ◆ External Display: Optional for synchronized temperature display



TECHNICAL PARAMETERS

Dimensions	77.5*34*77.5mm(Depth) Or 96mm(Depth)
Opening Dimension	71*29mm
Connector	Sensor:PH-2Y Or Screw terminal Or Plug terminal Power:Tab terminals Or Screw terminal Or Plug terminal
Voltage Rating	220VAC Or 110VAC,±10%,50/60Hz ≤3VA(Max)
Accuracy	±1°C over -40°C to 50°C; ±2°C others.
Range	-50°C~90°C

WIRING DIAGRAM



ECS-16

Note:For more configuration information,please contact us.

Universal Controller

HK961/974



PRODUCT INTRODUCTION

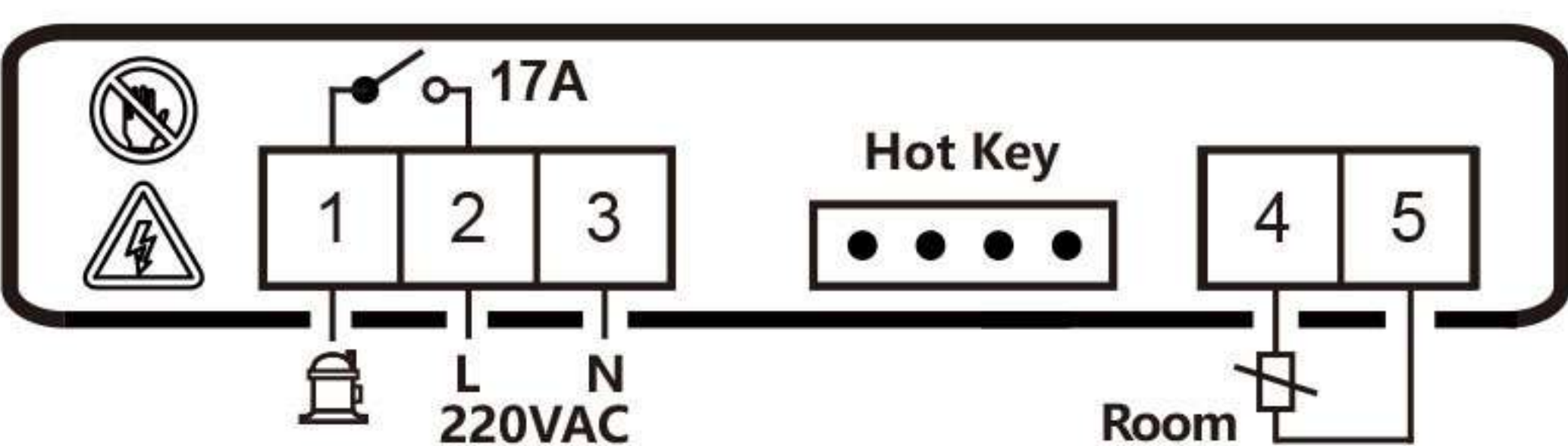
- ◆ Compact Short-body Direct Cooling Controller
- ◆ Directly drives 220VAC/1HP compressors.
- ◆ Supports up to two sensor inputs, with configurable enable/disable parameters.
- ◆ Offers optional blade/screw output terminals.



TECHNICAL PARAMETERS

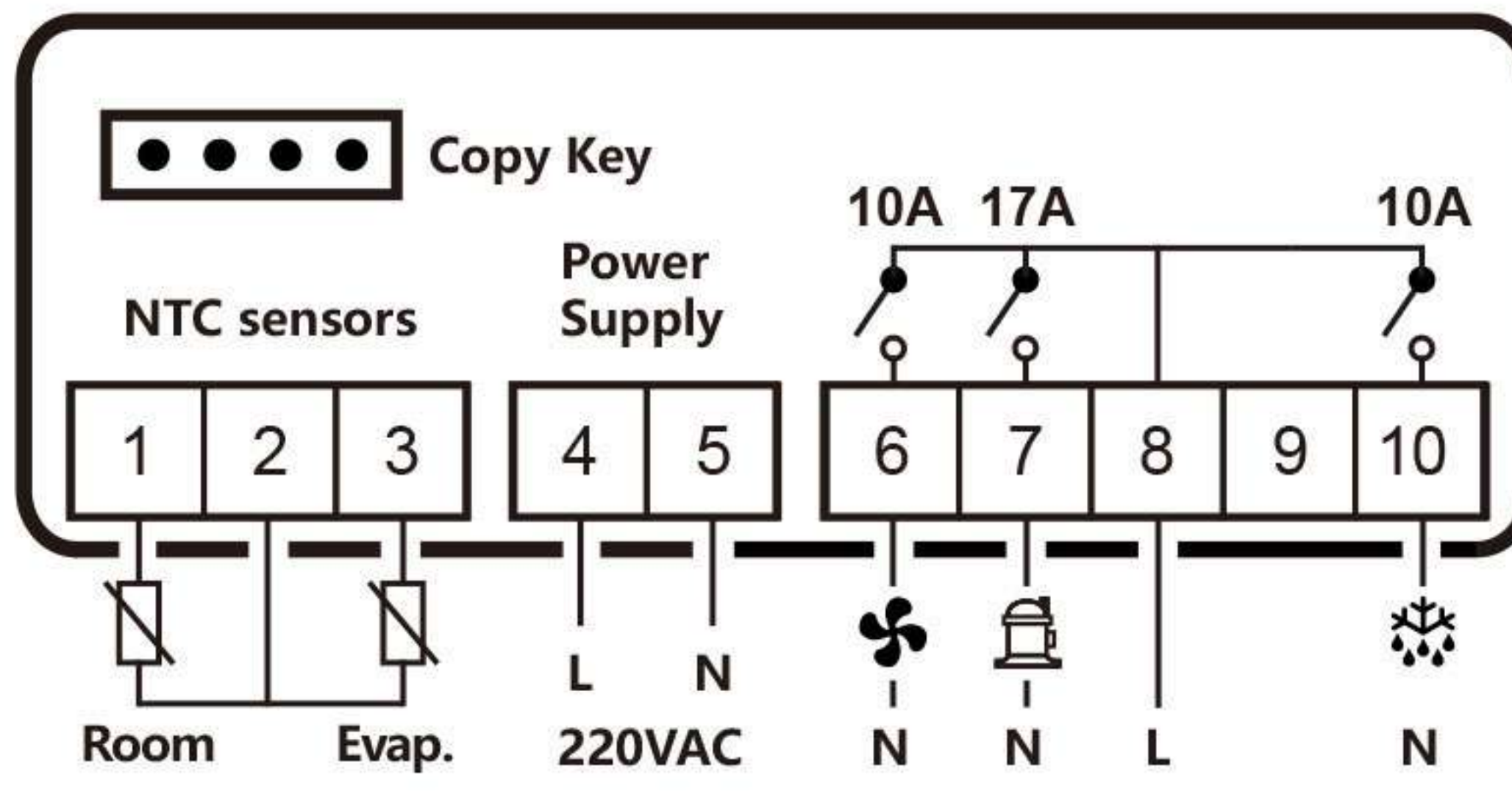
Dimensions	77.5*34*38.5mm (Depth)
Opening Dimension	71*29mm
Connector	Sensor:PH-2Y Or Screw terminal Power:Tab terminals Or Screw terminal
Voltage Rating	220VAC Or 110VAC,±10%,50/60Hz ≤3VA(Max)
Accuracy	±1°C over -40°C to 50°C; ±2°C others
Range	-50°C~90°C

WIRING DIAGRAM



HK974

HK961

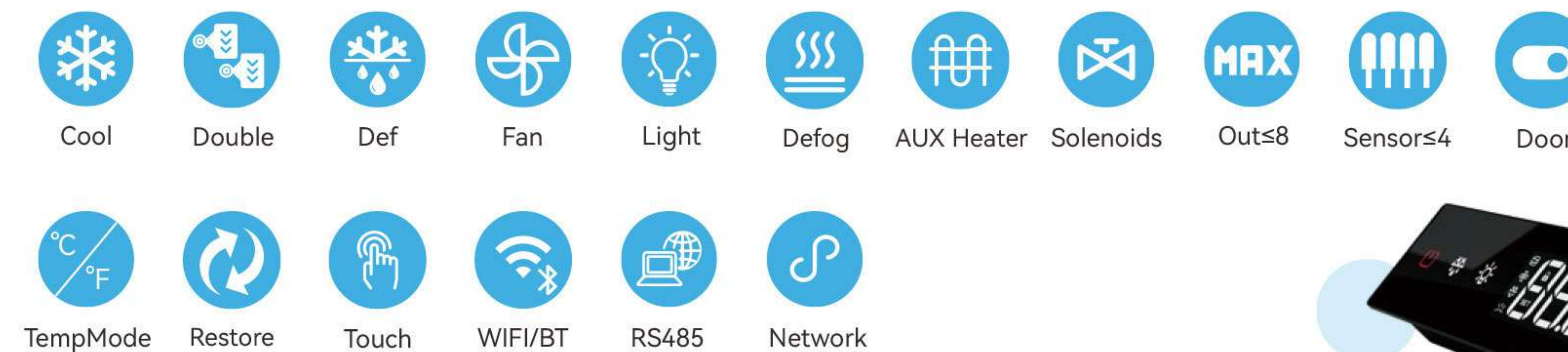


Note:For more configuration information,please contact us.

SUPERMARKET CABINET CONTROLLER

Supermarket Cabinet Controller

HK-60



PRODUCT INTRODUCTION

It supports both mechanical keys and touch-sensitive versions, with the touch keys available in standard and mirror-finish styles, the latter positioned as a premium product. Featuring split ultrasonic welding and an optional waterproof cover, it delivers enhanced water resistance. The display mainboard operates on a dual-system setup, ensuring that a short circuit on the display board does not affect system operation, with automatic recovery after fault resolution. It supports up to 4 inputs and 8 outputs, along with control of electronic expansion valves. The device is expandable with RS485 communication, compatible with the standard Modbus protocol, and can be paired with the HK-G200 to enable cooler networking. It also supports built-in Wi-Fi/Bluetooth modules and works with mini-programs for platform connectivity.

TECHNICAL PARAMETERS

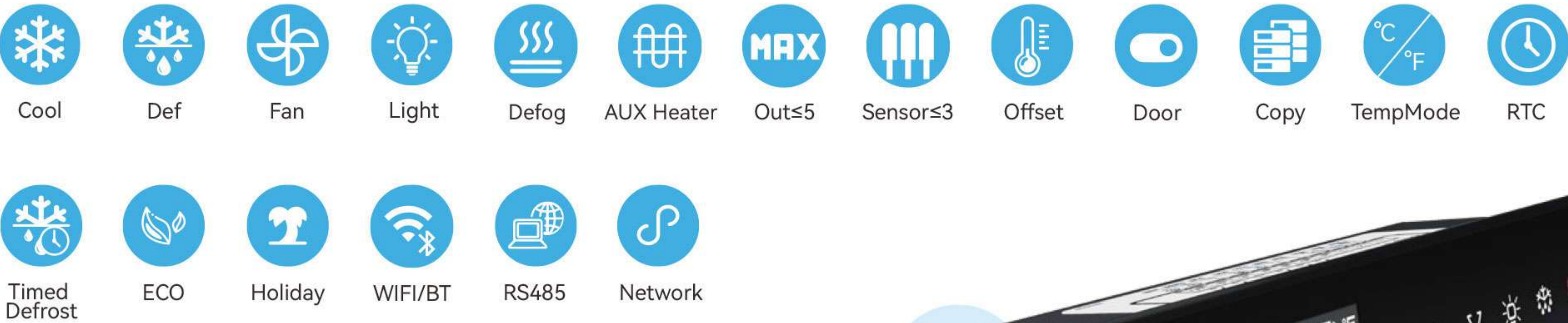
Dimensions	165*40mm
Mounting Dimension	151*34.5*26mm(Depth)
Voltage Rating	220VAC Or 110VAC,±10%,50/60Hz ≤5VA(Max)
Accuracy	-40℃~50℃时±1℃, 其余±2℃
Range	-50℃~90℃

WIRING DIAGRAM



Note:For more configuration information,please contact us.

HK-70



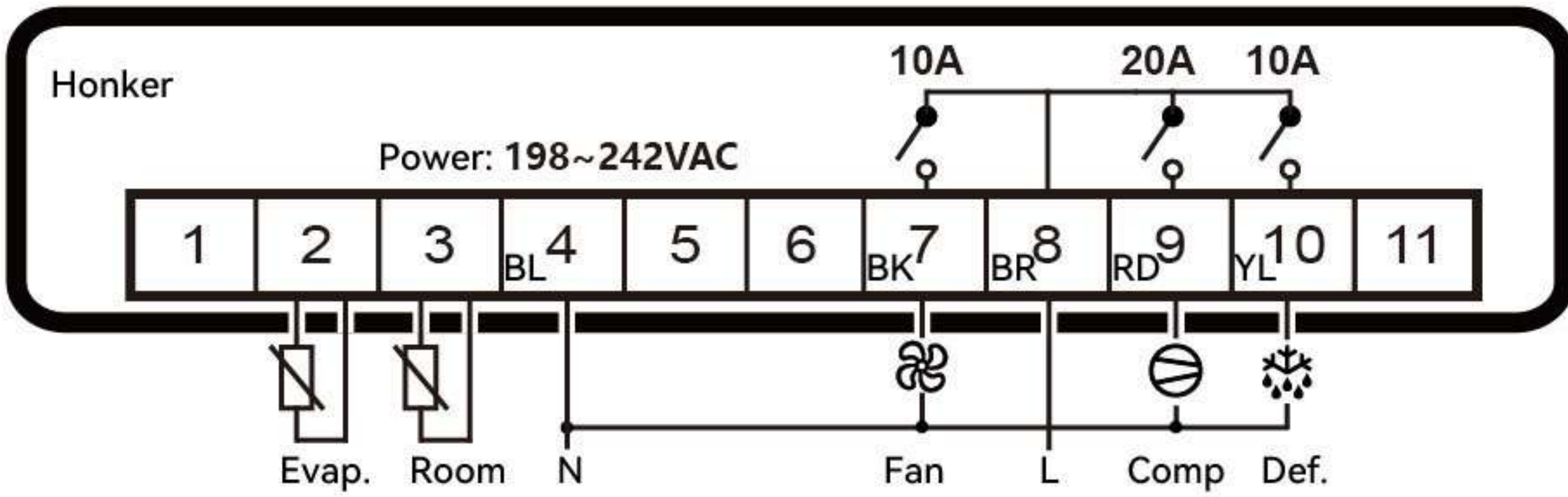
PRODUCT INTRODUCTION

Built-in RTC supports energy-saving, timed defrosting, and holiday modes, making it suitable for supermarket display cabinets and air curtain cabinets. It features three input channels, expandable RS485 communication, and compatibility with the standard Modbus protocol for local networking and platform connectivity. With integrated ultrasonic welding and sealed output wiring, it delivers excellent waterproof performance. The auxiliary heating function effectively prevents ice blockage and ensures thorough defrosting. It can directly drive 220VAC/2HP compressors and supports up to 5 output channels.

TECHNICAL PARAMETERS

Dimensions	152*38*46mm(Depth)
Opening Dimension	138*32.5mm
Connector	线束引出(Wiring)
Voltage Rating	220VAC Or 110VAC,±10%,50/60Hz ≤5VA(Max)
Accuracy	-40℃~50℃时±1℃， 其余±2℃
Range	-50℃~90℃

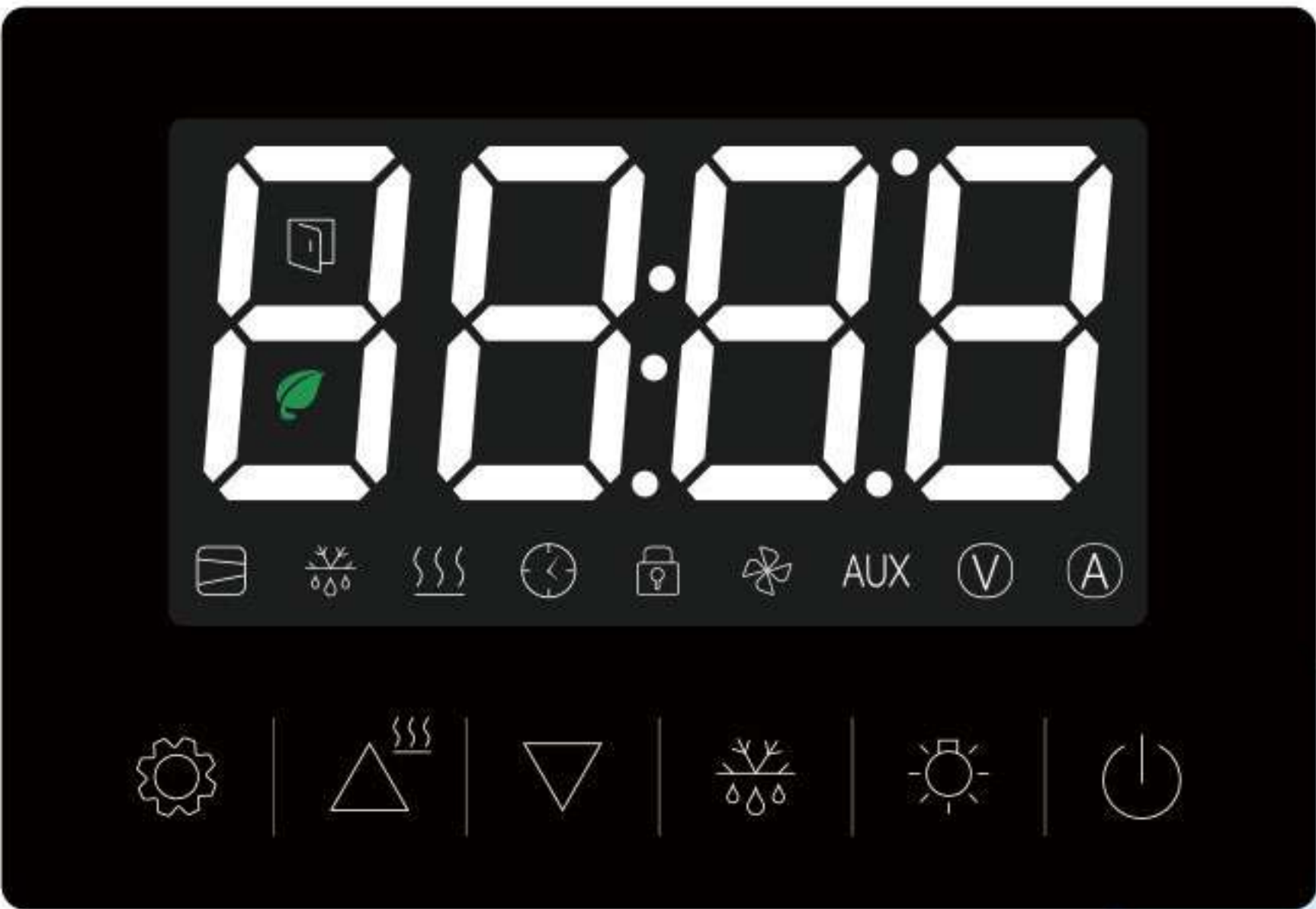
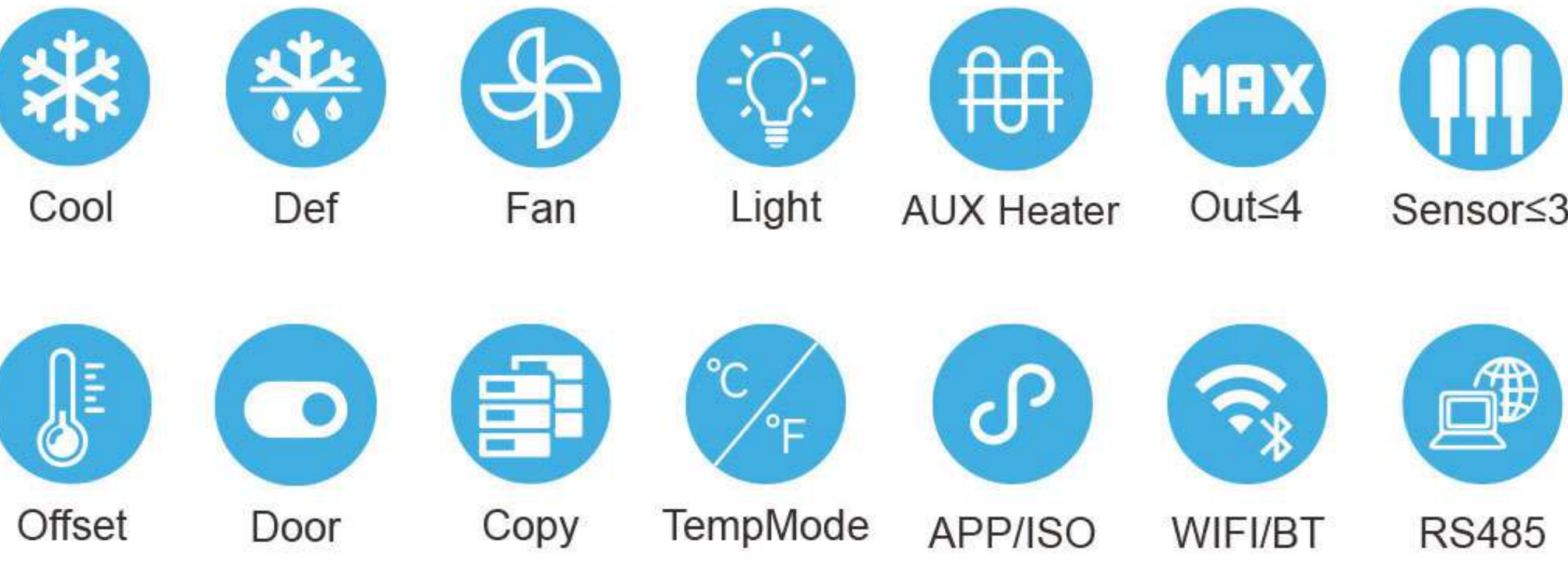
WIRING DIAGRAM



◀ HK-70

Note:For more configuration information,please contact us.

HK-E2



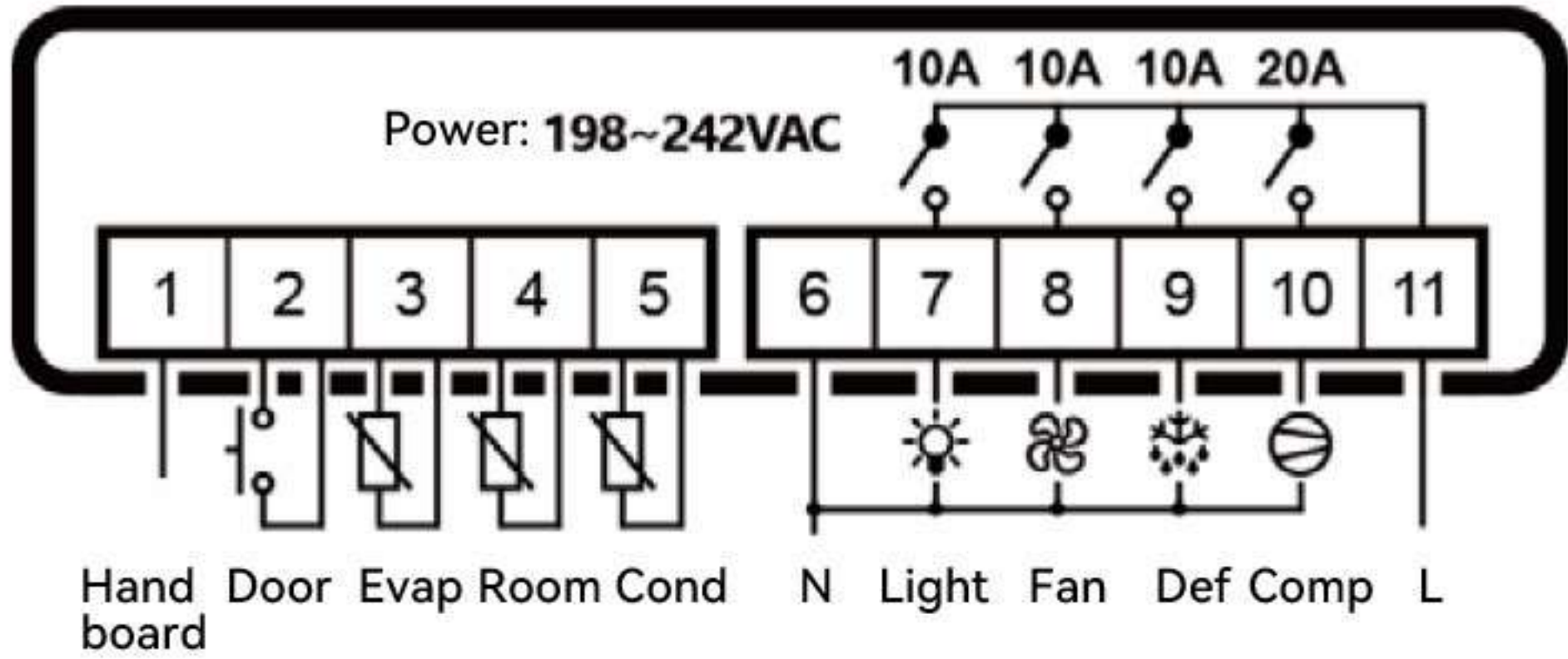
PRODUCT INTRODUCTION

HK-E2 is a range of controllers for refrigerated cabinets and display units. They are all modern design with a largeextra-bright display, function icons and 6 keys.HK-E2 has a capacitive touch-screen keypad and a completely flat IP65 front making it easy to clean. With up to 6relays for total management of refrigerated cabinets and display units, these controllers have firmware with smartfunctions for energy-saving

TECHNICAL PARAMETERS

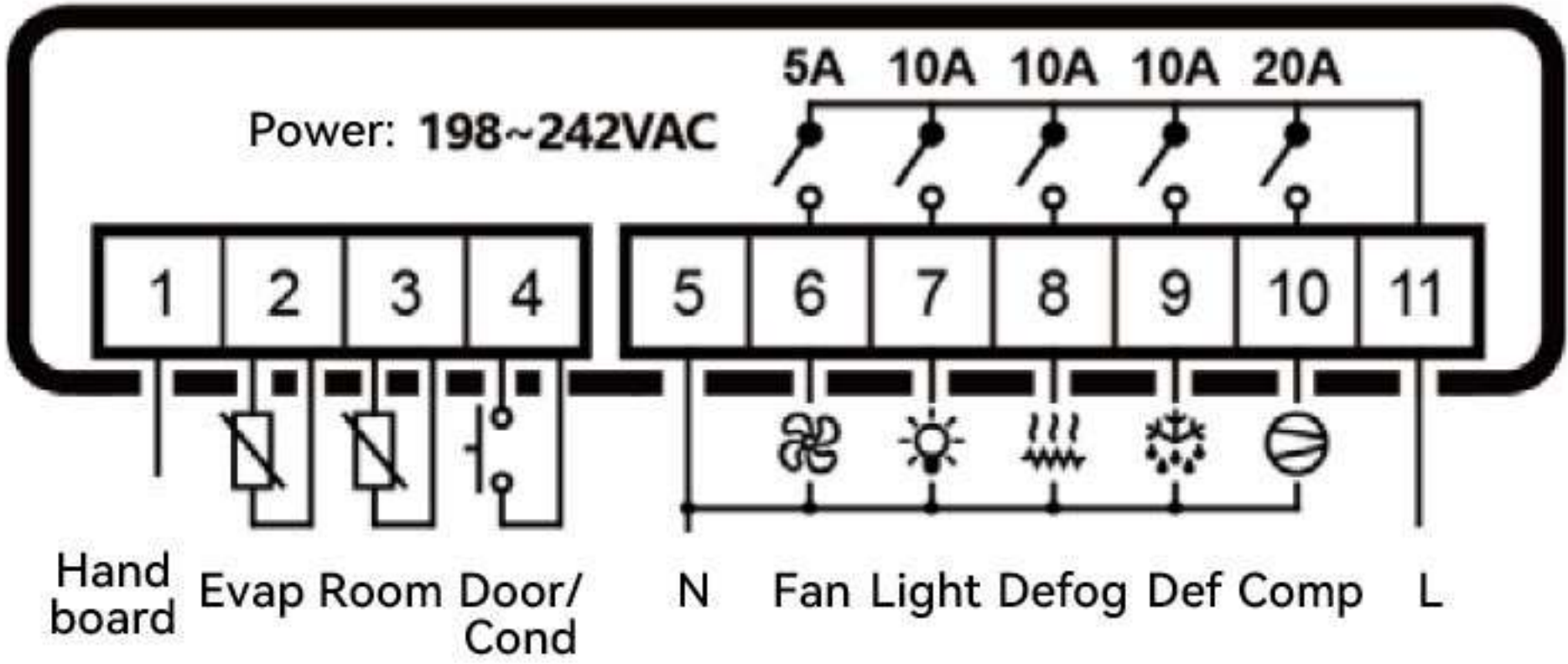
Mounting Dimension	72.5*107.5mm
Depth	24mm Or 37mm
Power Supply	220VAC Or 110VAC,±10%,50/60Hz ≤5VA(Max)
Display Type	4-digit digital tube with symbol indicators
Temperature Unit	℃ or ℉ selectable
Display Resolution	0.1℃ or 1℉
Temperature measurement range	-50℃ to 90℃+1℃(-40℃ to 50℃),+2℃(other ranges)
Connectcor	Screw, blade , plug-in, wire

WIRING DIAGRAM



◀ DB-104

DB-105▶



Note:For more configuration information,please contact us.

HKP-90

- Cool/Heat

Double

Def

Fan

Light*2

Defog

AUX Heater

Outs8

Sensors≤4

Door

Copy

TempMode
- Restore

RTC

Timed Defrost

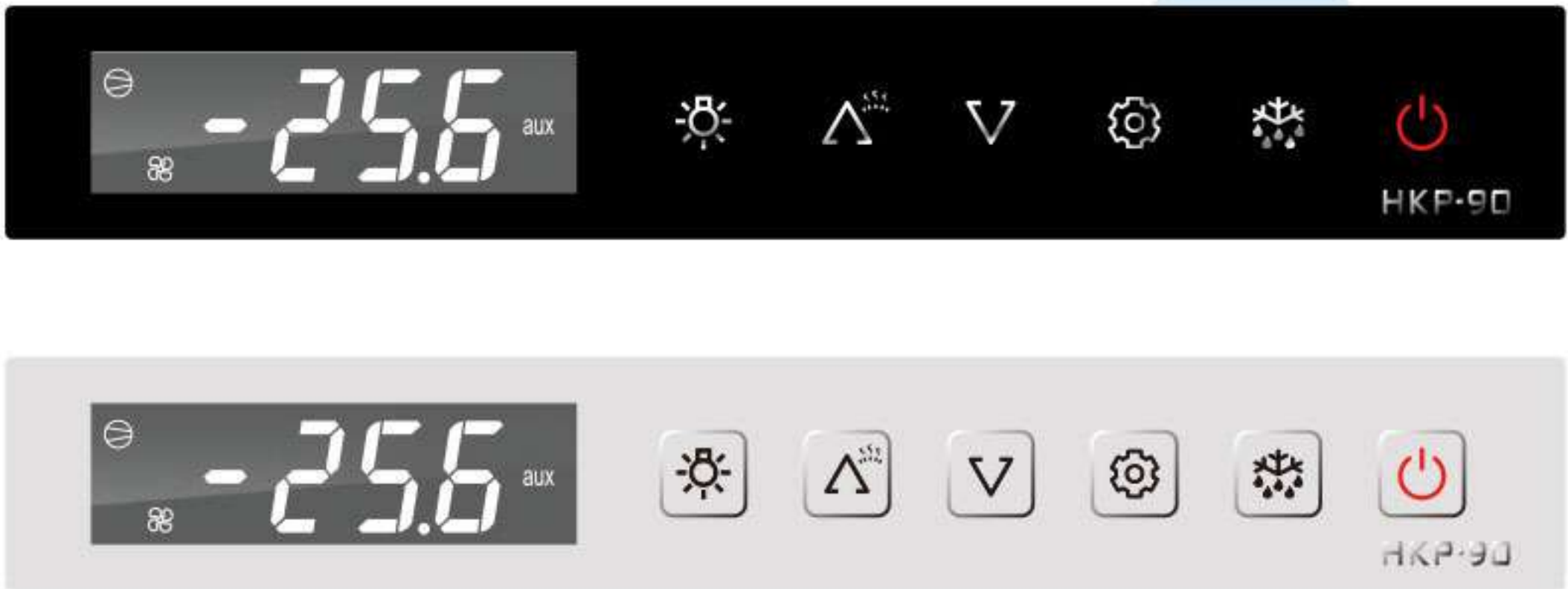
ECO

Holiday

WIFI/BT

RS485

Network



PRODUCT INTRODUCTION

HK(P)-90 is the new controller of the split series for the control of low temperature or normal temperature refrigeration units fitted with inside lighting. The thin user terminal is separated by the power board and is suitable for standard insulation thickness. The easy cabling of the power board is supported by the integrated terminals for loads. HK(P)-90 can manage up to two compressors, managing delayed activation in parallel or in two steps, including rotation.

TECHNICAL PARAMETERS

Mounting Dimension	25.2x172.4mm
Depth	18.3mm or 28mm
Power Supply	110VAC/220VAC selectable (or universal), ≤5W
Display Type	3-digit digital tube with symbol indicators
Temperature Unit	°C or °F
Display Resolution	0.1°C or 1°F
Temperature measurement range	-50°C~90°C, ±1°C (-40°C~ 50°C), ±2°C (other ranges)
Connecttor	Screw, tab, plug-in, wire

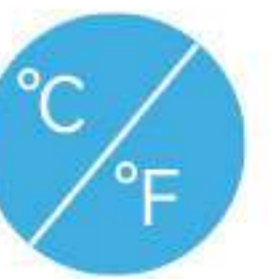
WIRING DIAGRAM



Note: For more configuration information, please contact us.



HK-80/HK-8000

- Cool
- Double
- Def*2
- Fan*2
- Light*2
- Defog
- AUX Heater
- Out≤8
- Sensors≤4
- Door
- Copy
- TempMode
- Restore
- RTC
- Timed Defrost
- ECO
- Holiday
- WiFi/BT
- RS485
- Network
- Touch

PRODUCT INTRODUCTION

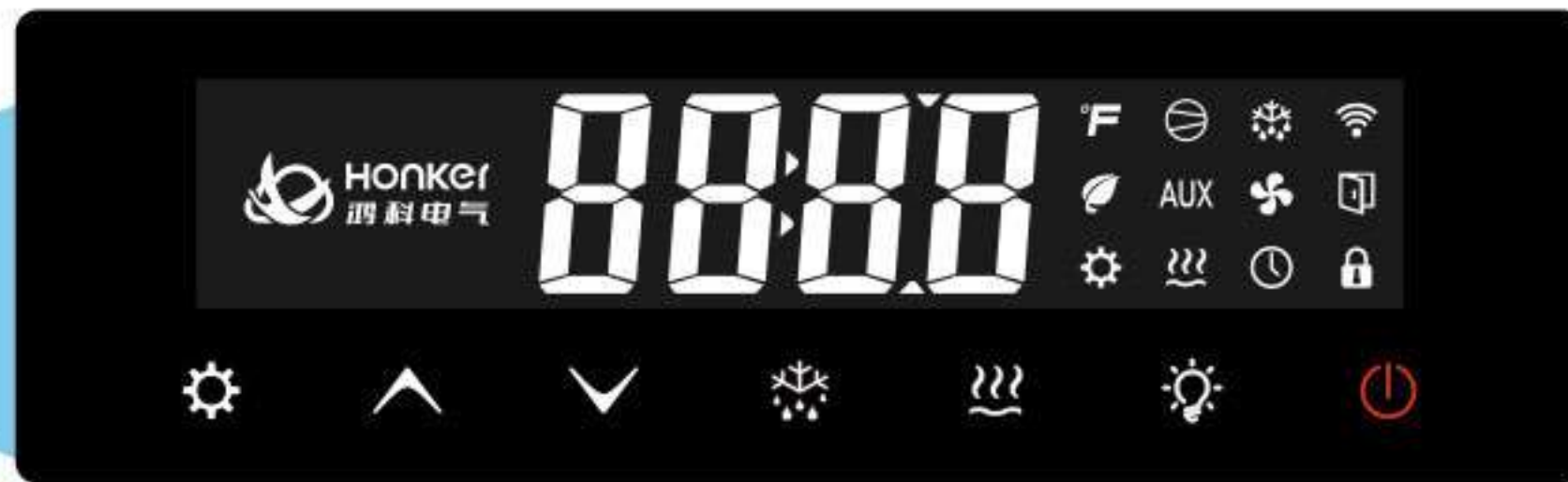
HK80-S1 is a single temperature zone controller, S2 is a dual temperature zone controller. The driver box offers various connector options and can directly drive a 1.5HP compressor. The display board has a dual system design, even if the display board is short-circuited, it will not affect the normal operation of the refrigerator. With the optional RS485 port, it can be connected to WiFi or 4G with IoT modules.



S1



S2

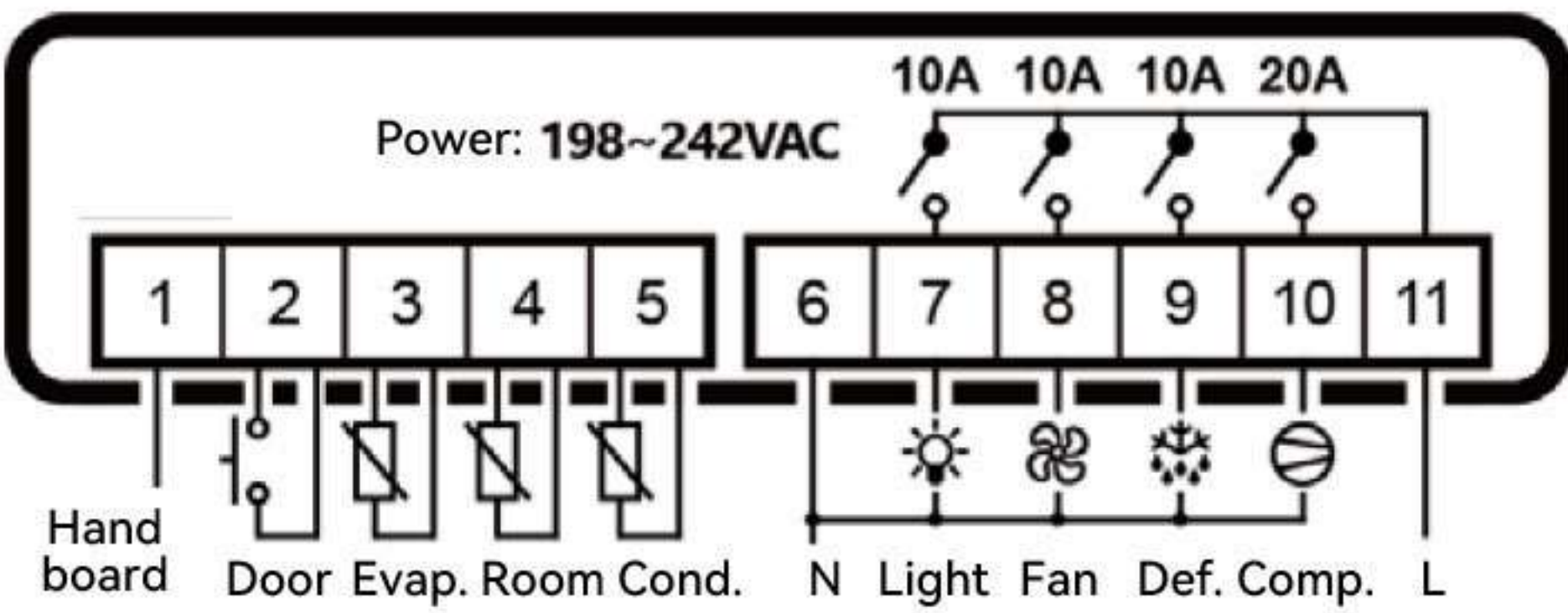


HK-8000

TECHNICAL PARAMETERS

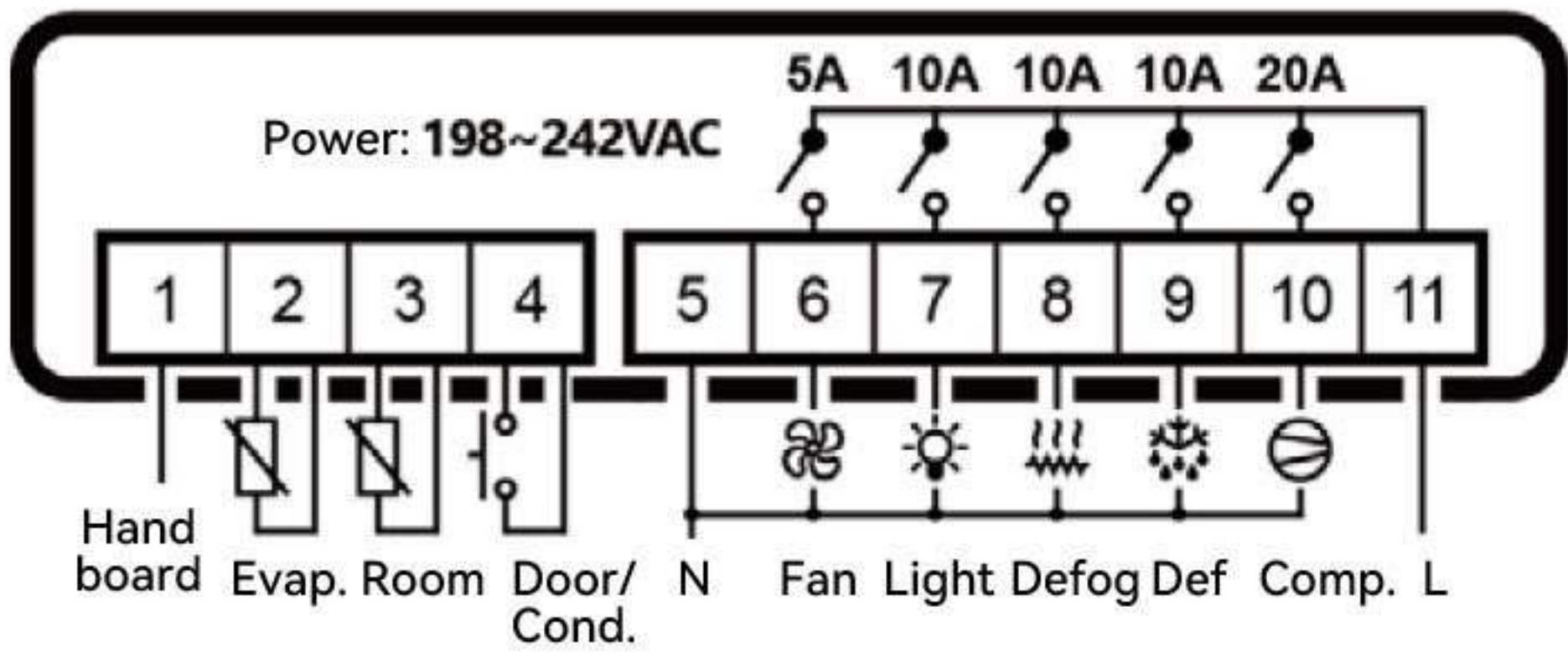
Mounting Dimension	57.5*192mm
Depth	26mm Or 38.8mm
Power Supply	110VAC / 220VAC (Selectable or Universal),≤5w
Display Type	3-digit digital tube with symbol indicators
Temperature Unit	°C Or °F
Display Resolution	0.1°C Or 1°F
Temperature measurement range	-50°C to 90°C (±1°C from -40°C to 50°C,±2°C otherwise)
Connectctor	Screw, tab , plug-in, wire

WIRING DIAGRAM



DB-104

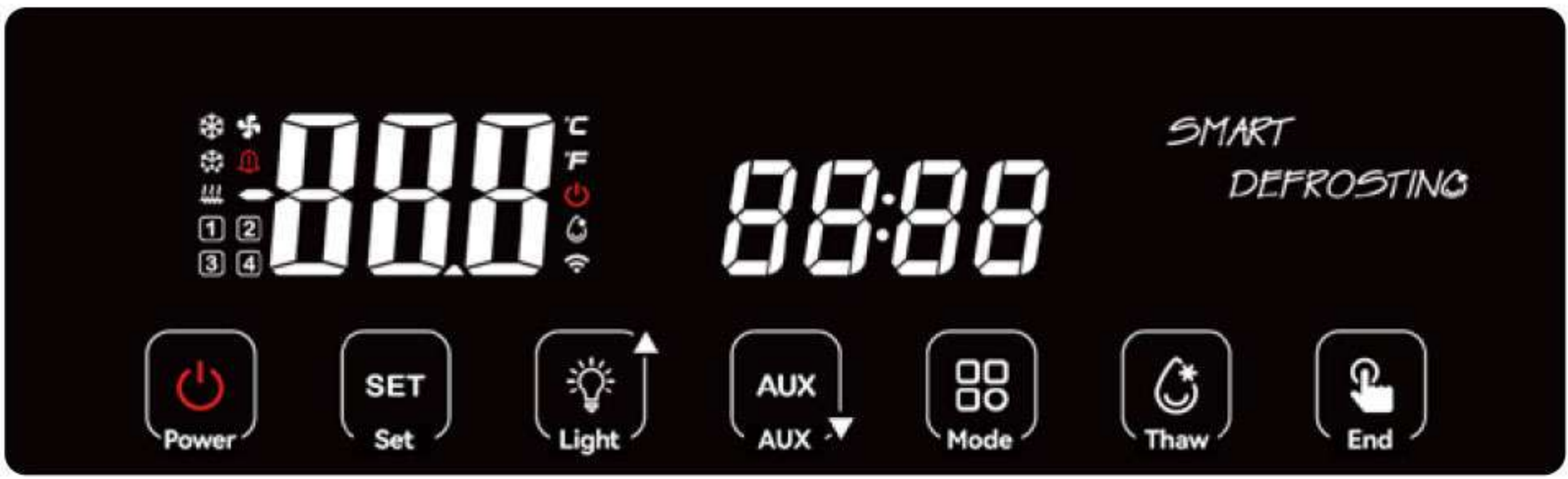
DB-105



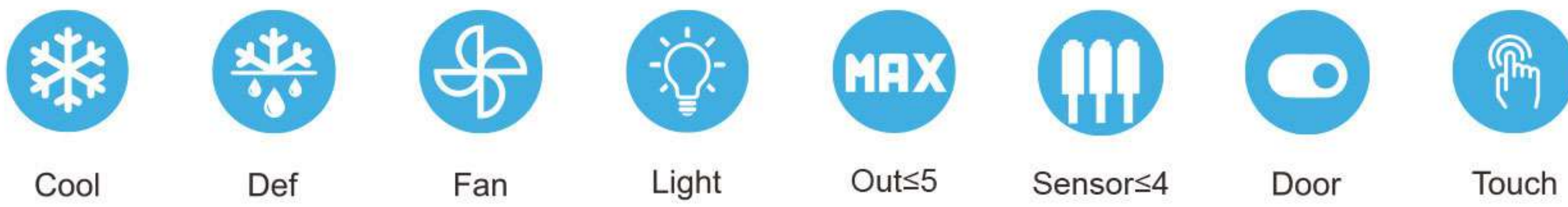
Note:For more configuration information,please contact us.



CHAIN COFFER & BAKERY SHOPS CONTROLLER



SDG-80



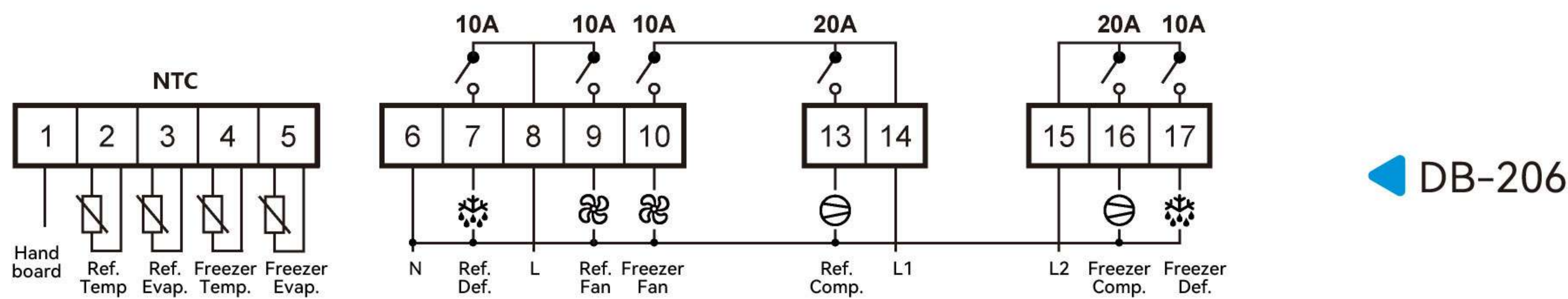
PRODUCT INTRODUCTION

SDG-80 new blast chiller controller with customizable user interface for blast chilling and food freezing and conservation, respecting food safety standards, SDG-80 stands out thanks to the high level of customization of blast chilling cycles and of user interface.

TECHNICAL PARAMETERS

Personalized cycles and interface
Easy to shift from Soft or Hard blast chilling and quick-freezing
Automatic transition to the conservation phase
Device does not require any particular setting
Cycle can be launched with temperature or time control
Seven keys quick and easy programming
Easy to clean front surface and guarantees an IP65 protection

WIRING DIAGRAM



Note:For more configuration information,please contact us.

JDG-80



Chain Coffe & Bakery Shops Controller



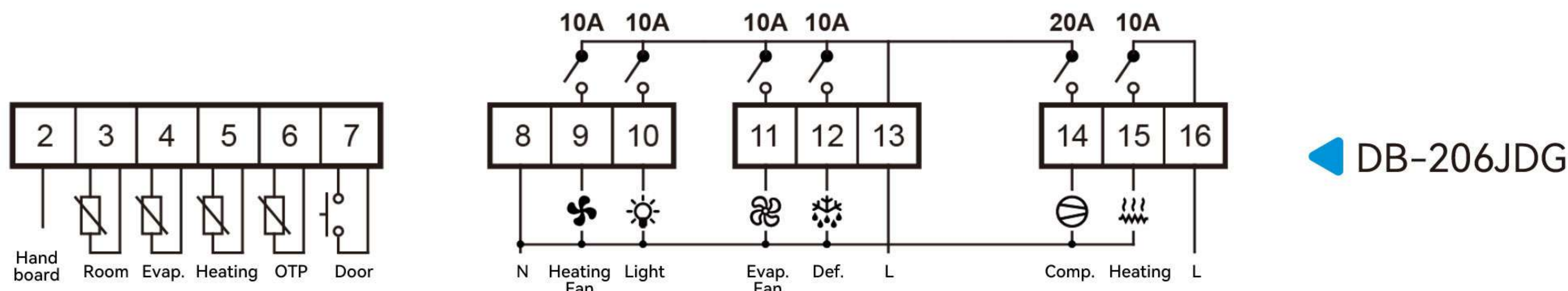
PRODUCT INTRODUCTION

JDG-80 is a controller for thawing cabinets. It has five relays which can be configured to meet users' needs and are also available in the sealed version, so can be used with refrigerant gases with reduced environmental impact (such as R290). The thawing cycles can be time and temperature-controlled and automatically go to the holding phase. The thawing modes ha four pre-set programmes which are accessed from the display, allowing users to customise thawing and preservation setpoints for the loads quickly and easily, preventing the development of bacteria and ensuring only the highest quality and safety standards.

TECHNICAL PARAMETERS

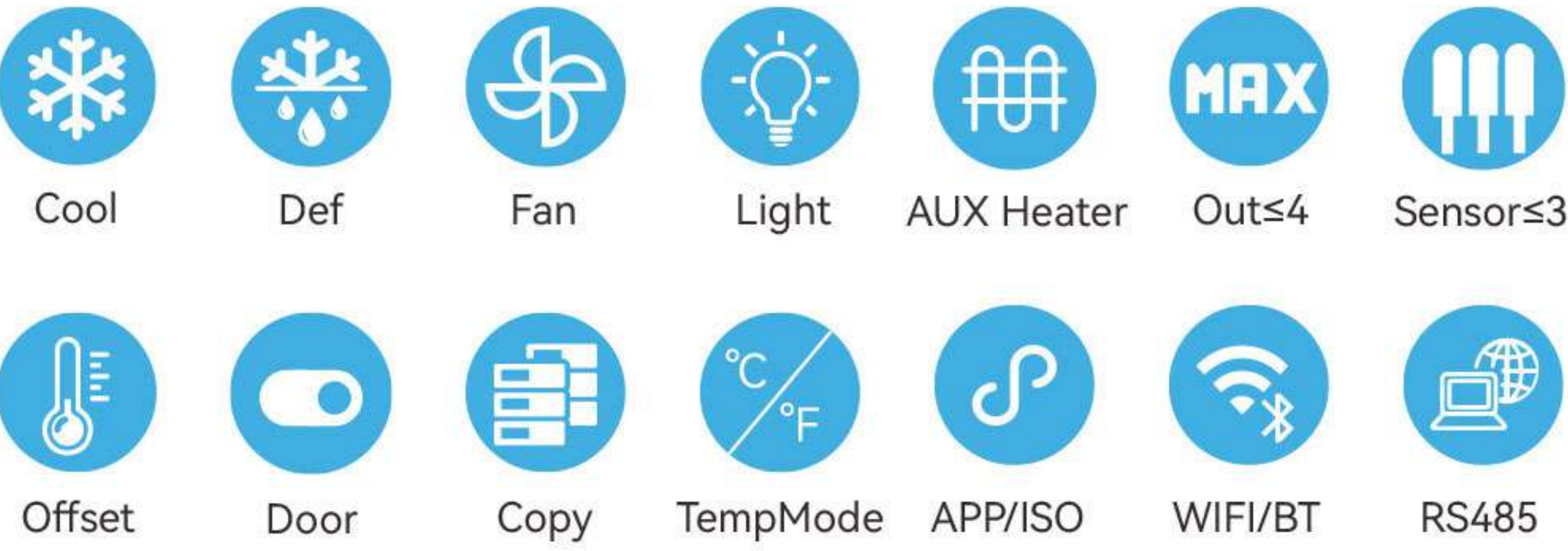
Mounting Dimension	192*57.5mm
Depth	26mm
Power Supply	110VAC/220VAC,≤5W
Display Type	3-digit digital tube with symbol indicators
Temperature Unit	°C or °F
Display Resolution	0.1°C (-19.9 to 90.0°C),1°C (-50.0 to -20.0°C)
Temperature measurement range	-50°C to 90°C (±1°C from -40°C to 50°C,±2°C otherwise)
Connectctor	Fully sealed

WIRING DIAGRAM



Note:For more configuration information,please contact us.

HK-1001V



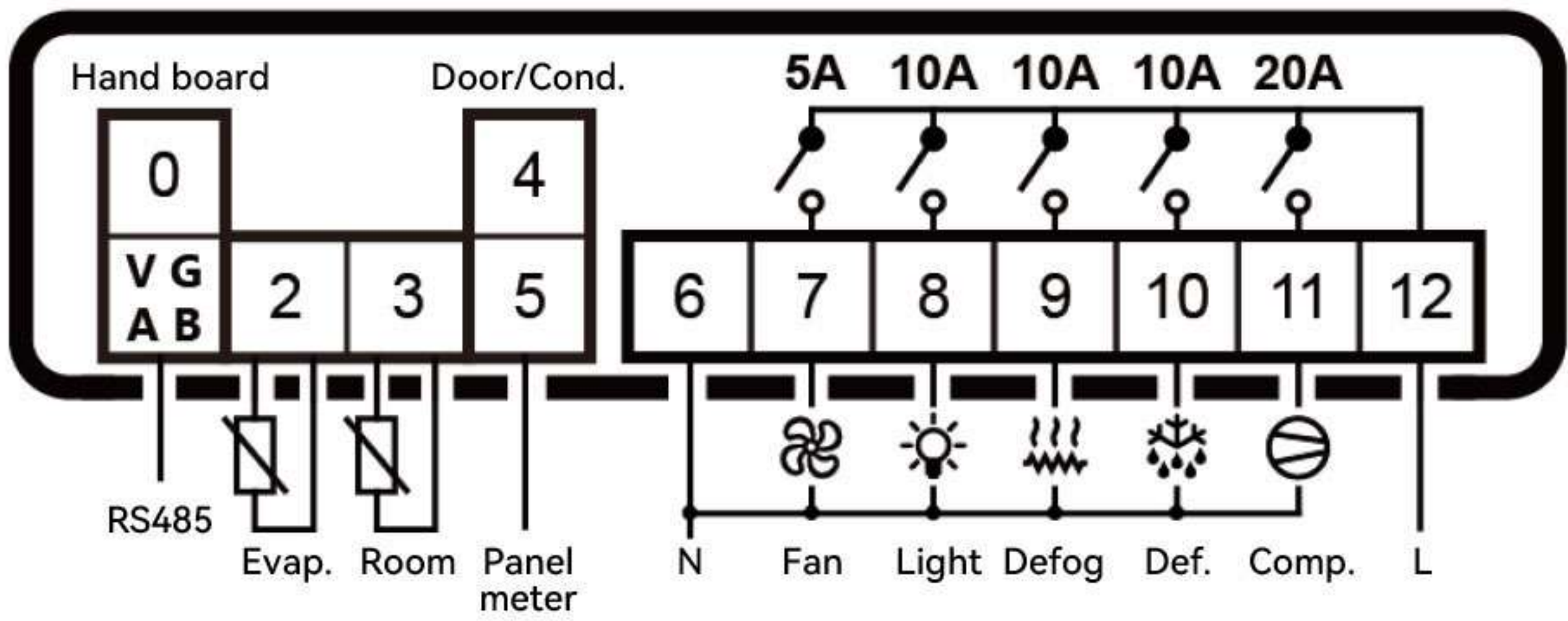
PRODUCT INTRODUCTION

HK-1001V is a universal split controller which is currently used with an extended display screen. It provides three appearance options: high-end mirror, conventional glass and mechanical buttons.

TECHNICAL PARAMETERS

Mounting Dimension	75*148mm
Depth	37mm (including waterproof waterproff cover)
Power Supply	110VAC/220VAC, ≤5W
Display Type	3-digit digital tube with symbol indicators
Temperature Unit	°C Or °F
Display Resolution	0.1°C Or 1°F
Temperature measurement range	50°C~90°C,±1°C(-40°C~50°C),+2°C(other ranges)
Connectctor	Screw, blade, plug-in, lead wires

WIRING DIAGRAM



◀ DB-105 Note:For more configuration information,please contact us.



PANEL & ACCESSORIES



HK-950 / 960



Panel meter series: Suitable for refrigerated equipment such as cake cabinets, wine cabinets, display cabinets, etc., that require external expansion display.

PRODUCT INTRODUCTION

HK-950 Series: Used in conjunction with a temperature controller for synchronizing and extending the display of the controller's temperature readings.

HK-960 Series: Equipped with one sensor probe, it can be used independently for single-channel temperature measurement and display. Wide voltage input, low power consumption design. Factory default settings include configurable temperature mode, temperature calibration, and display resolution.

TECHNICAL PARAMETERS

Model	HK-950	HK-960
Dimensions	83*23.5*15.6mm	83*23.5*34.2mm
Mounting	65.9*19.5mm	65.9*19.5mm
Voltage	5VDC±10%(Used with the controller)	110~220VAC ±10% 50/60Hz
Power	1VA(MAX)	1VA(MAX)
Range	-50°C~90°C/-58°F~194°F	-50°C~120°C/-58°F~248°F
Accuracy	-40°C~50°C时 ±1°C, 50~70±2°C, ±3°C(other ranges)	-40°C~50°C时 ±1°C, 50~70±2°C, ±3°C(other ranges)
Connector	XH-4P	Sensor:2.8mm插片 Power:4.8mm插片

HK-R1/HK-F1



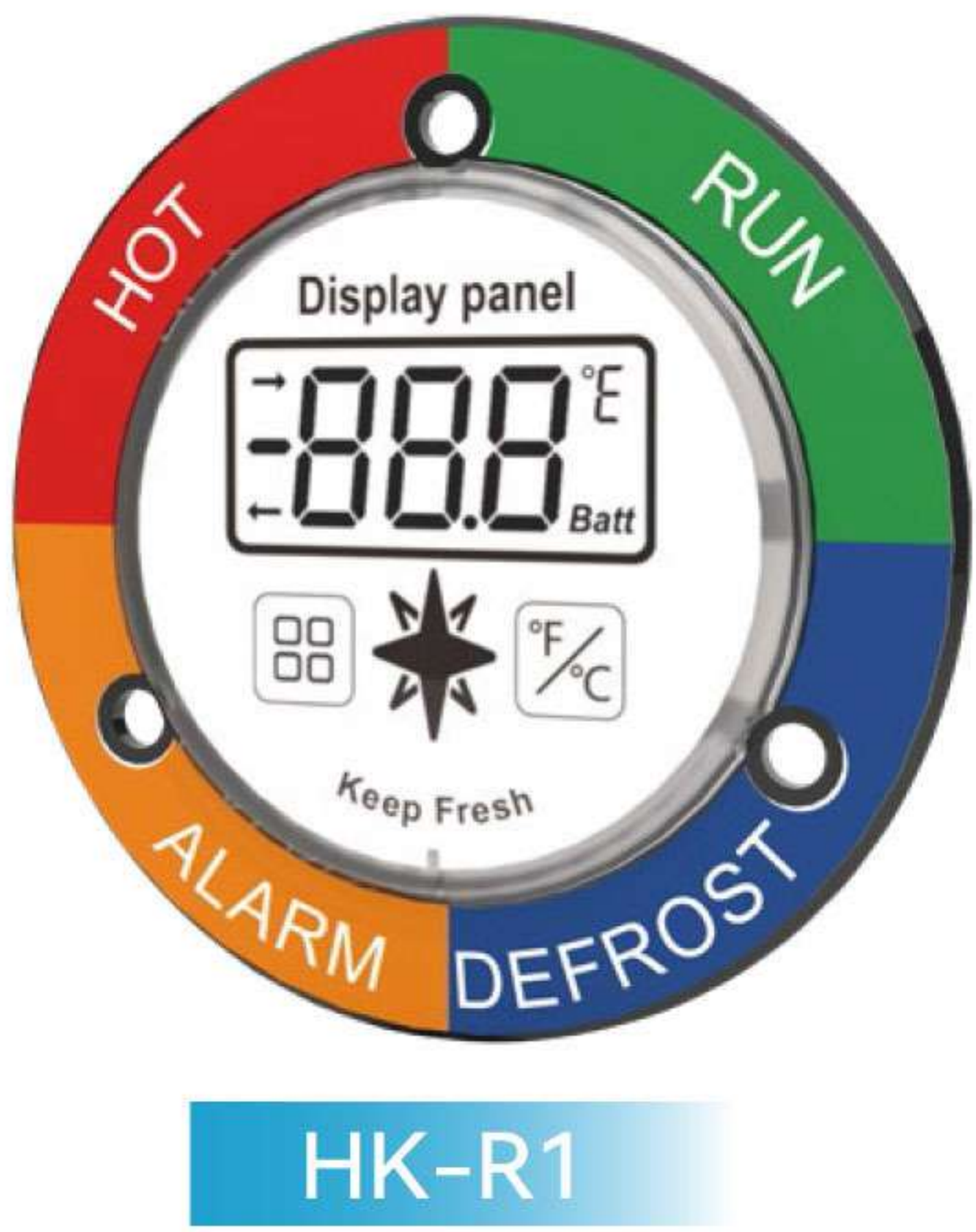
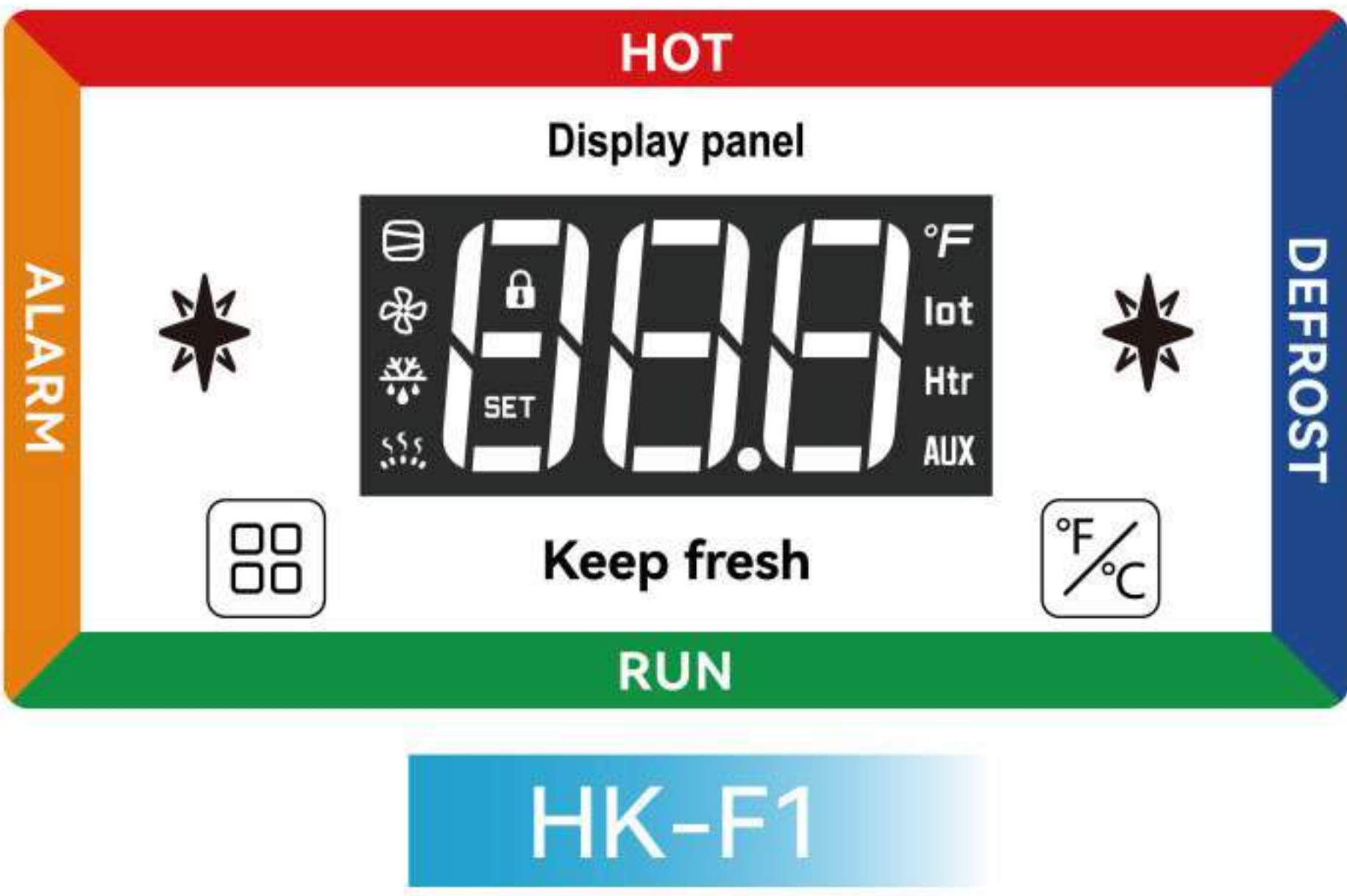
Sensors1



Offset



TempMode



PRODUCT INTRODUCTION

HK-R1/HK-F1 is a digital thermometer with LCD display, easy toinstall, can be used in food and refrigeration industry

TECHNICAL PARAMETERS

Mounting Dimension	HK-R1:Φ57mm	HK-F1:91.5*46mm
Depth	37mm(including waterproof cover dimension)	
Power Supply	AC85V~AC265V;≤5W	
Display Type	3 digit LCD display	
Temperature Unit	°C or °F	
Display Resolution	-9.9~99.9 in steps of 0.1, otherwise in steps of 1	
Temperature measurement range	-40°C to 90°C/-40°F to 194°F;±1°C when -40°C to 50°C,otherwise ±2°C	
Connectctor	Lead,plug-in	