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For more details, please visit our website: http://www.e-elitech.com.

Elitech®
— Since 1996 —

22 year expertise in refrigeration control

Refrigeration & Industrial Control Business Unit

Product Selection Guide Since 1996

Jiangsu Jingchuang Electronics Co.,Ltd

http://www.e-elitech.com



The largest microcomputer temperature controller production base in Asia.

New Production Base
R&D Center



Area:110,000 ㎡



Elitech







Capital	**USD 1,837,500**
Revenues	USD 45 million in 2017
Employee number	723
R&D Engineer	150
QC Engineer	50
Annual Production Capacity of Controller	4 million pcs
Annual Production Capacity of Leak Detector	200,000 pcs
Annual Production Capacity of data logger	2 million pcs
Business	Cold chain(network) monitoring system Automobile air conditioning control system New energy automobile air conditioning system Temperature & humidity control system Temperature & humidity data logger Electrical control system for refrigerant unit Industrial refrigeration control system
Branches	ELITECH TECHNOLOGY Inc in USA silicone valley ELITECH(UK) LIMITED Shanghai Environment Technology Co.,Ltd Nanjingcold chain networking Research Institute Co Ltd



Elitech has built strategic cooperation relationship with many well-known enterprises, such as Panasonic (Dalian)、Xingxing、Haier、Hisense、Aucma, etc. Our market share is listed top one in the same industry nationally and also leading in the global market of the same industry.

Our core suppliers are Hongfa, Schneider, Honeywell, NEC...

Company Certification



Our company has passed certifications of ISO9001:2008, ISO14001:2004, OHSAS18001:2011, TS16949:2009, CE, UL and ETL. It is qualified to produce environment-friendly products completely in accordance with EU ROHS directive.

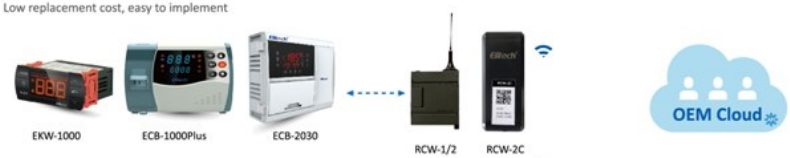
Elitech has established four branches: ELITECH TECHNOLOGY Inc (in US Silicon Valley), ELITECH (UK) LIMITED (in London), Jiangsu Jingchuang Networking Technology Co.,Ltd (in Nanjing) and Joycontrol (Shanghai) Environment Technology Co.,Ltd (in Shanghai Free Trade Zone). We have eight business units: Cold Chain End Measurement and Control Business Unit, Cold Chain Networking Business Unit, Refrigeration Industrial Control Business Unit, Data Logger Business Unit, Environment Science and Technology Business Unit, Automobile Electronics Business Unit and Heat Pump Unit Business Unit.

IoT in Cold Cabinet Saves Your Money and Energy

Terminal + Channel + APP + Platform = Overall IoT Solution

Cold Room Networking Solution

wireless connection, high penetration
Support hundreds of cold cabinets to unit and network
Low replacement cost, easy to implement



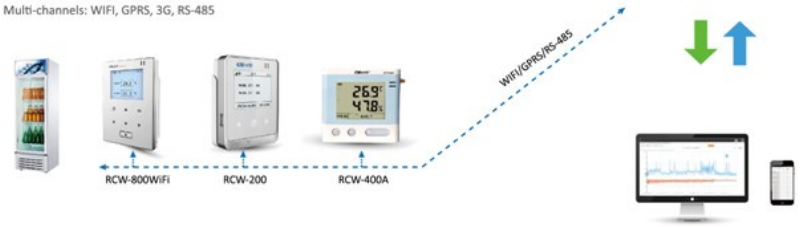
Traditional Cold Cabinet Networking Solution

Wireless connection, quick deployment
Powered by battery, long standby time



Convenience Store Networking Solution

Multi-channels: WIFI, GPRS, 3G, RS-485



Elitech Clould Login

Elitech Cloud focuses on monitoring the safety of food and pharmaceuticals in cold chain transport and features the functions of information collection, sensing, communication, control and cloud computing, etc. It provides supervision, diagnosis, pre-warning and control on the whole cold chain stages of food and pharmaceuticals, such as production, storage, transport and distribution. Via low-delay communicating mechanism and remote control system protocol with massive nodes, Elitech cloud can offer various cold chain PaaS and SaaS for food and pharmaceutical enterprises, refrigeration industry and government supervision.

Web Login www.i-elitech.com



Note:Please log in by browser IE7 +, firefox and Chrome.

APP Login



iOS Android

EKW-3030/1000

Cloud Control



Application

Used on freezing and refrigerating, greenhouses, hatching and culture industrials and etcetera.

Technical parameters

◆Power supply: 220VAC±10%, 50/60HZ
◆Temperature measurement range: -40℃ to +99℃
◆Temperature control range: -40℃ to +85℃;
±1℃ (-30℃ to +50℃)±1℃0.5,others ±2℃ 0.5
◆Temperature resolution: 0.1℃
◆Temperature accuracy: ±1℃
◆Sensor type: NTC sensor
◆Case material: ABS anti-flaming plastic case

Specifications

Product size: 51* 100*82.5mm
Mounting size: 71 * 29mm

Product functions compare table

Cloud control EKW series			
Output	Model	EKW -1000	EKW -3030
	Cooling	●	●
	Heating	● (Auto)	
	Defrosting		●
	Fan		●
	Alarm	buzzer	buzzer
	Water pump		
	Sensor	1	2
	Networking method	GPRS	GPRS

EK-3010 EK-3020



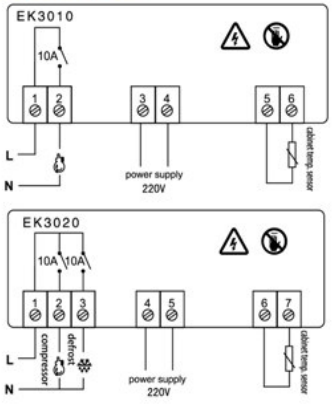
Technical parameters

◆Temperature measuring range: -40℃~+99℃
◆Temperature control range: -40℃~+85℃
◆Temperature measuring accuracy: ±1℃±0.5 digit (-30℃~+50℃); ±2℃±0.5 digit (others)
◆Display resolution: 0.1℃/1℃
◆Operating voltage: 220VAC±10%, 50/60Hz
◆Operating ambient temperature: -10℃~+55℃
◆Relative humidity: 10%~90% (non-condensing)
◆Storage temperature: -25℃~+75℃

Specifications

◆Product size: 78.5(L) * 34.5(H) * 82(D) mm
◆Mounting size: 71(L) * 29(H) mm

Wiring diagram



EK-3021 EK-3030



Technical parameters

◆Temperature measuring range: -40℃~+99℃
◆Temperature control range: -40℃~+85℃
◆Temperature measuring accuracy: ±1℃±0.5 digit (-30℃~+50℃); ±2℃±0.5 digit (others)
◆Display resolution: 0.1℃/1℃
◆Operating voltage: 220VAC±10%, 50/60Hz
◆Operating ambient temperature: -10℃~+55℃
◆Relative humidity: 10%~90% (non-condensing)

Specifications

◆Product size: 78.5(L) * 34.5(H) * 82(D) mm
◆Mounting size: 71(L) * 29(H) mm

Wiring diagram

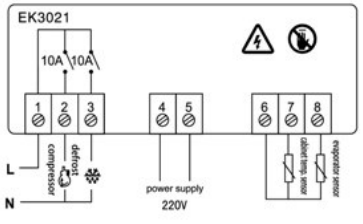
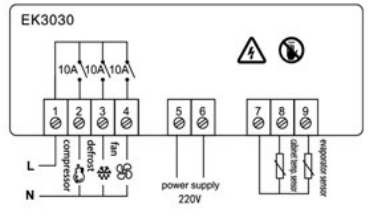




Table of EK series functions

	Features	EK-3010	EK-3020	EK-3021	EK-3030	EK-3030E
Output	Refrigeration	●	●	●	●	●
	Defrost		●	●	●	●
	Fan				●	●
	Alarm	Buzzer	Buzzer	Buzzer	Buzzer	Buzzer
Input	Sensor	1 piece	1 piece	2 piece	2 piece	2 piece
RS485						●

Wiring diagram



EK-3030E

RS-485



Application

The controller is mainly used in industrial refrigeration. It adopts Modbus communication protocol and can communicate with PLC devices etc.

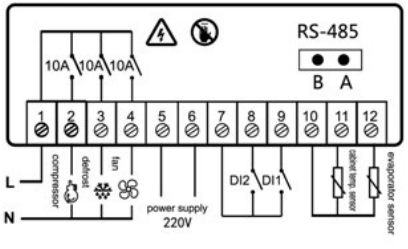
Technical parameters

◆Temperature measuring range: -40℃~+99℃
◆Temperature control range: -40℃~+85℃
◆Temperature measuring accuracy: ±1℃±0.5 digit (-30℃~+50℃); ±2℃±0.5 digit (others)
◆Display resolution: 1℃/0.1℃ (integer/decimal switch)
◆Sensor: NTC (10KΩ/25℃, B value 3435K)

Specifications

Product size: 85 * 35 * 63.8 mm
Mounting size: 71 * 29mm
Length of sensor and wire: 2m

Wiring diagram



Functions

◆A simple centralized monitoring solution: With no need to use router, etc., the controller can access to PC USB through RS485 to achieve centralized monitor of cold storage groups and multiple refrigerating devices.
◆Transmission distance up to 500m: User can analyze and process temperature data and alarm info of cold storage in duty room or monitor room via upper computer software. It is much more simple and regular to manage cold storage.
◆6 independent buttons on the panel: Users can directly operate the controller with no need to use menu and user manual. No menu, simple operation!
◆It adopts touch buttons and unibody injection moulding of front panel. It is waterproof and dustproof, with more stable and reliable performance.
◆RS485 module is optional. Conversion interface from RS485 to USB is optional.

ECB-1000Plus

Cloud Control



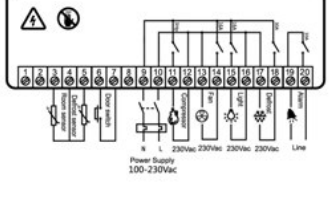
Applications

Applicable for small refrigerated storage in refrigeration industry

Technical parameters

◆Working voltage: 100~256VAC，50/60Hz
◆Power consumption: less than 10W
◆Temperature measurement range: -45℃~+99℃
◆Accuracy: ±1℃
◆Temperature control range: -40℃~+99℃
◆Resolution: 0.1℃/1℃ or 1F
◆Output capacity of relay:
For compressor, 50A/240VAC, can drive up to single-phase 3p load
For deforst, 30A (15A)/240VAC
For fan, 16A/240VAC
For light, 16A/240VAC
For alarm, 8A/220VAC
◆Storage temperature: -20℃~75℃
◆Ambient temperature: -10℃~65℃
◆Sensor type: NTC (10KΩ/25℃, B value 3435K)
◆Overall dimension: 265mm×167.5mm
◆Length of sensor: 2m (including probe)

Wiring diagram



ECB-2010/2020/2030NET

Cloud Control



Applications

Suitable for small and medium-sized medium and low temperature refrigeration storage; could realized automatic control on the refrigerating unit.

Functions

◆ECB-2010: refrigeration only;
ECB-2020: refrigeration and defrost;
ECB-2030: refrigeration, defrost and fan.
◆Creative combination design, freestyle extension of control unit is easy for function upgrading, and quick respond to customizing demands from customers;
◆Specially designed control system for the refrigerating unit with 3.5KW/5.5KW/7.5KW, which can realize integrated control of all units including the compressor, fan, defrosting unit, light and alarm unit;
◆The ABS anti-flaming engineering plastic case come with concise and elegant appearance; presenting safer and more reliable insulating property when compares to metal cabinet;
◆The RS-485 communication interface enables users to not only connect and communicate with PLC and other equipment but also realized the centralized monitoring of the refrigeration storage through upper computer software;
◆Certified by the HACCP;
◆It consists an business/opening/shop mode, which can realize eco night energy conservations: clock settings and business/opening/shop mode could reduce refrigeration storage's energy consumption.

ECB-5060CN Series



Guaranteed food and drug safety by all-time awareness on the cold storage status, wherever and whenever possible; Refrigeration unit real-time monitoring and recordings on its temperatures, current, alarms and other working status ensuing a stable, reliable and high-performance operation for the refrigeration system; Remote setting and control via cell phones and other intelligent terminals;

Intelligent diagnosis, smart early warning alarms and remote technology support not only improve repairs to maintenance but also improve user experiences and reducing operational costs.

Application

Suitable for freezing and refrigeration industrials, middle/low temperature and quick freezing cold storage.

Functions

◆MTC-5060C temperature controller is adopted;

◆Cooling and defrosting function, compressor over-current and voltage protection;485 communication function;

◆Capable of remote setting and control by using the product as the terminal device that connect the supported Elitech RCW-2 relay module into the network.

ECB-720WiFi



ECB-720WiFi electric cabinet adopts our company's WiFi networking temperature controller LTC-720. The user-friendly and smart man-machine interface is easy to operate without relying on the manual. It is displayed by dual screens and the current temperature can be remotely checked and set. With its performance stable and reliable, it is a highly cost-effective multi-functional electric control cabinet.

Application

Applicable for the remote monitoring of small and medium cold storage with low or medium temperature.

Technical parameters

◆It has electric current display and WiFi networking function, applicable for controlling the temperature of the cold storage and remote operation.

◆Dual temperature sensor can control the temperature of the compressor and defroster respectively, which is safer and more energy-saving.

◆It can conduct separate control on the compressor and defroster.

◆It has lacking-phase protection, phase-sequence protection and three-phase unbalance protection functions.

Specifications

Overall dimensions: 340*420*135(mm)

ECB-5080S

Standard Electric Control Cabinet



Application

Suitable for refrigeration industry, medium and low temperature refrigeration and quick freezing storage.

Functions

◆A refined and concise controller MTC-5060; dual temperature sensors; it can realize individual control over the compressor, defroster and fan;

◆Compressor startup delay is adjustable;

◆The self-developed motor product;

◆Electric current display; proportionally compressor startup or shutdown throughout sensor fault;

◆Manual/automatic rotary switch control;

◆Convenient operations, stable and reliable performance.

RCW-2/2C

Elitech Relay Module



RCW-1/2 RCW-2C

Technical parameters

◆Operating voltage: (100-240) VAC, 50~60Hz

◆Operating ambient temperature: -20℃~65℃

◆Data transmission: temperature and humidity data is transmitted to server via 3G network.

◆Communication interface: RS485

◆Indicator: bi-color LEDs (red and green)

◆Alarm: SMS, cloud platform

◆Radio frequency: WCDMA

◆RS485 load capacity: 16 pieces of terminal devices at maximum

◆RS485 communication address range: 1-16.
Note: The terminal devices connected to the same module cannot have the same address.

◆SIM card: micro SIM card in WCDMA network

◆Antenna type: sucker antenna

◆Product size: L: 80+8*2 (mounting hole) ± 2mm, W: 71±2 mm, H: 62±2 mm.

RCW-2C

◆Mounting method: Magnet adsorption, 3M glue

◆Networking method: dedicated GPRS IoT card

◆Platform website: www.e-elitech.cn

ETC-974

Refrigeration · Manual defrost · Fan · ℃/℉ · 2NTC · Temperature Calibration



The product is widely used in all kinds of cold storage, low-temperature freezers, and kitchen refrigerators.

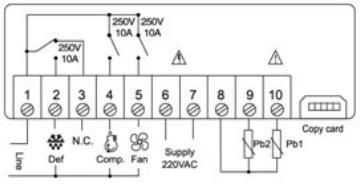
Technical parameters

◆ Temperature measuring range:NTC:-50~+110 ℃ (-58~+230°F) ; PTC:- 55-140℃(-67~+284°F) ;
◆ Temperature controlling range:-5~+55℃ ;
◆ Relay contact outut capacity:10A / 250VAC ;
◆ Working voltage:230VAC ± 10 % , 50 / 60Hz ;
◆ Resolution:1 or 0.1℃ ;
◆ Sensor:NTC (10KΩ2 / 25℃ , B value 3435K) ,
PTC (9900 / 25 ℃)

Accessories

2 probes, 1operation instruction, 2 elastic tabs

Wiring diagram



ETC-961

Refrigeration · Manual defrost · ℃/℉ · Alarm · 1NTC · Temperature Calibration



The product is widely used in drinks cabinets, display cabinets and kitchen cabinets.

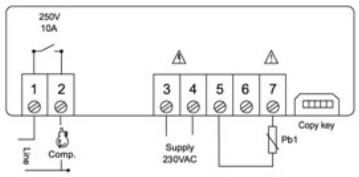
Technical parameters

◆Machine dimensions : 77*32*58 (mm)
◆Mounting dimensions:71*29(mm)
◆Operating voltage:230VAC ±10% 50/60Hz;
◆Relay rated operating current:8A/220VAC;
◆Temperature control range:-50℃ ~ 99℃;
◆Display resolution:1℃/0.1℃(with integer and fractional switching mode) ;
◆Temperature measurement accuracy:±0.5℃(-15 ℃~-30℃) others , ± 1 ℃ ;
◆ Sensor type : NTC (-50 ℃~+120 ℃) ;
PTC (-55 ℃~+150 ℃)

Accessories

1 probe, 1operation instruction, 2 elastic tabs

Wiring diagram



ETC-902

Refrigeration · ℃/℉ · 1PTC/1NTC · Temperature Calibration



The product is widely used in the beverage cabinets, display cases, kitchen cabinets, etc.

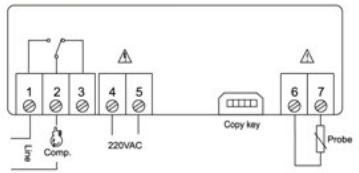
Technical parameters

◆ Working voltage : 230VAC ± 10% , 50 / 60Hz ;
◆ Temperature controlling range:-50℃~+99℃ ;
◆ Resolution:1℃/0.1℃ (switch between integer mode and decimal mode) ;
◆ Accuracy:± 0.5 ℃ (-15℃~ -30℃) , others , ± 1℃ ;
◆ Sensor type : NTC (-50℃ ~+120℃) ;
PTC (-50℃ ~ +150℃) .

Accessories

1 probe, 1operation instruction, 2 elastic tabs

Wiring diagram



ECS-180neo

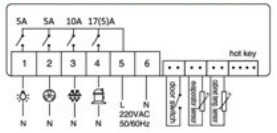
Cooling · Defrost · Fan · Light · Door switch · 3NTC · Temperature Calibration · ℃/℉



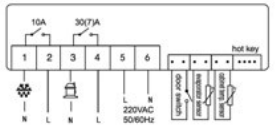
Technical parameters

◆Product size: 78.5 * 34.5* 82 (mm)
◆Mounting size: 71 * 29 (mm)
◆Operating voltage: 220VAC±10%, 50/60HZ
◆Overall power consumption: <3W
◆Temperature measuring range: -50℃~+90℃ or -58℉~+194℉
◆Temperature measuring accuracy: ±1℃(-40℃~+50℃); ±2℃(51℃~70℃); ±3℃(others)
◆Display resolution: 0.1℃
◆Temperature control range: -50℃~+85℃ or -58℉~+185℉

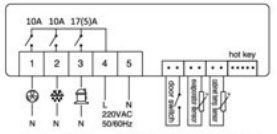
Wiring diagram (Quick connect type)



ECS-180neo A(17 10 05 05)S24.B



ECS-180neo A(30 10 00 00)S24.B



ECS-180neo A(17 10 10 00)S24.B

ECS-6011neo (Compact type)

Cooling 2NTC Temperature Calibration ℃/℉



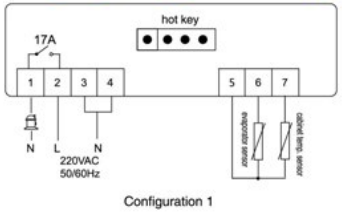
Technical parameters

◆Product size: 78.5 * 34.5* 39 (mm)
◆Mounting size: 71 * 29 (mm)
◆Operating voltage: 220VAC±10%, 50/60HZ
◆Overall power consumption: <3W
◆Temperature measuring range: -50℃~90℃ or -58℉~194℉
◆Temperature measuring accuracy: ±1℃(-40℃~50℃); ±2℃(51℃~70℃); ±3℃(others)
◆Display resolution: 1℃ or 1℉
◆Temperature control range: -50℃~90℃ or -58℉~194℉

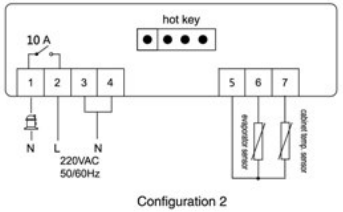
Functions

◆Switch between ℃ and ℉ via menu.
◆Two channels of temperature sensors can be configured to adjust cabinet temperature and control defrosting.
◆Drive single-phase 1HP compressor; natural defrost.
◆Set parameters to display cabinet temperature or evaporator temperature.
◆Display running status indicator.
◆With temperature sensor self-test function, multiple protection and alarm modes are available in case fault is detected.
◆Copy card function helps quickly manage and adjust product parameters.
◆Wiring mode: traditional screw-type.

Wiring diagram (Quick connect type)



Configuration 1



Configuration 2

Input/output port

	Control output	Signal input	
	Cooling	Cabinet temperature	Defrost temperature (optional)
Configuration 1	17 A	√	√
Configuration 2	10 A	√	√

(Note: The table only lists the typical hardware configuration of this controller. For more details, please contact us.)

ECS-04CX、ECS-02CX

Defrost 2NTC Temperature Calibration Cooling ℃/℉



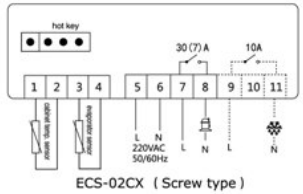
Technical parameters

◆Product size: 78.5 * 34.5* 82 (mm) (ECS-04CX), 78.5 * 34.5* 74 (mm) (ECS-02CX)
◆Mounting size: 71 * 29 (mm)
◆Operating voltage: 220VAC±10%, 50/60HZ
◆Overall power consumption: <3W
◆Product size: 78.5 * 34.5* 82 (mm) (ECS-04CX), 78.5 * 34.5* 74 (mm) (ECS-02CX)
◆Mounting size: 71 * 29 (mm)
◆Operating voltage: 220VAC±10%, 50/60HZ
◆Overall power consumption: <3W

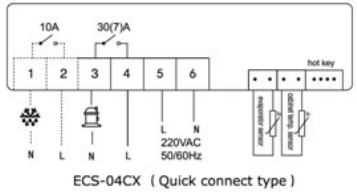
Functions

◆Switch between cooling and heating mode via menu.
◆Switch between ℃ and ℉ via menu.
◆Two channels of temperature sensors are used to adjust cabinet temperature and control defrost.
◆Two channels of control output can be configured at maximum to control compressor and defrost.
◆With temperature sensor self-test function, multiple protection and alarm modes are available in case fault is detected.
◆Copy card function, special software configured, quick management and adjustment of product parameters.
◆Wiring mode: ECS-04CX quick connect type ECS-02CX traditional screw-type.

Wiring diagram (Quick connect type)



ECS-02CX (Screw type)



ECS-04CX (Quick connect type)

Input/output port

Serial code	Control output		Signal input	
	Cooling	Defrost(optional)	Cabinet temperature	Defrost temperature (optional)
A(17.10.00.00)S2	17A	10A	√	√
A(30.10.00.00)S2	30A	10A	√	√

(Note: The table only lists the typical hardware configuration of this controller. For more details, please contact us.)

ECS–06CX





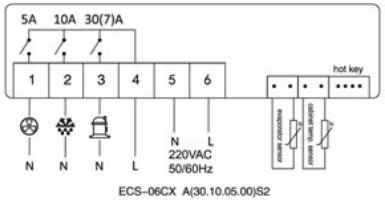
Technical parameters

◆Product size: 78.5 * 34.5* 82 (mm)
◆Mounting size: 71 * 29 (mm)
◆Operating voltage: 220VAC±10%, 50/60HZ
◆Overall power consumption: <3W
◆Temperature measuring range: -50℃~+99℃ or -50℉~+99℉
◆Temperature measuring accuracy: ±1℃(-40℃~+50℃); ±2℃(50℃~70℃); ±3℃(others)
◆Display resolution: 0.1℃/℉(-9.9~+9.9); 1℃/2℉(others)
◆Temperature control range: -50℃~+99℃ or -50℉~+99℉

Functions

◆Switch between ℃ and ℉ via menu.
◆Two channels of temperature sensors are used to adjust cabinet temperature and control defrost.
◆Three channels of control output are for compressor, defrost and fan.
◆Various fan running models to different cabinets demands.
◆Defrost type is electric heating and hot gas to be optional.
◆With Copy key function to quickly adjust product parameters recovery factory parameter settings.

Wiring diagram (Quick connect type)



Input/output port

Serial code	Control output			Signal input	
	Cooling	Defrost (optional)	Fan(optional)	Cabinet temperature	Defrost temperature (optional)
A(17.10.10.00)S2	30 A	10 A	10 A	√	√
A(30.10.05.00)S2	17 A	10 A	5 A	√	√
A(20.10.10.00)S2	20 A	10 A	10 A	√	√

(Note: The table only lists the typical hardware configuration of this controller. For more details, please contact us.)

MEC-H10





Functions

◆One channel of humidity sensor is used to monitor cabinet humidity in real time; Two channels of temperature sensors at maximum are used to monitor cabinet and evaporator temperature.
◆Five channels of control output can be used to control cooling, fan, heating wire, light and (humidification) fan.
◆Mass data can be recorded after a logging module is connected.
◆Real-time curve can be copied via the USB of the logging module.
◆Lock button can prevent misoperation.
◆Switch between measurement and control mode and ECO mode
◆Touch control interface is much more artistic and easier to clean.
◆With temperature sensor self-test function, multiple protection and alarm modes are available in case fault is detected.
◆The humidity sensor is condensation-proof.

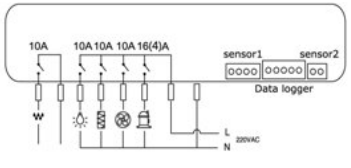
Application

Medicine cabinets, such as refrigerated cabinets, cool cabinets, etc., wine cellar, wine cabinets, etc.

Technical parameters

◆Product size: 132 * 43* 61.5 (mm)
◆Mounting size: 112 * 39 (mm)
◆Operating voltage: 220VAC±10%, 50/60HZ
◆Overall power consumption: <5W (MEC-H10)
◆Stand-by power consumption: <1W (MEC-H12)
◆Temperature measuring range: -40℃~+50℃
◆Temperature measuring accuracy: ±1℃
◆Temperature control range: -40℃~+50℃
◆Humidity measuring range: 0%~99.9%RH
◆Humidity accuracy: ±5%RH
◆Humidity control range: 1%~99%RH

Wiring diagram



Input/output port

	Control output					Signal input			Buzzer beep (optional)
	Compressor	Fan	Heating wire	Light	(Humidification) Fan	Humidity	Cabinet temperature	Evaporator temperature	
MEC-H10	16 A	10 A	10 A	10 A	10 A	√	√	√	√

(Note: The table only lists the typical hardware configuration of this controller. For more details, please contact us.)

LTC-55





Application

Kitchen cabinets, split cabinets for supermarket, open display cases, wine cabinets, etc.

Functions

◆Two channels of temperature sensors are used to adjust cabinet temperature and control defrosting.

◆One channel of switch is used to monitor the action of cabinet door.

◆Multiple channels of control output are for compressor, defrost, fan and light.

◆With temperature sensor self-test function, multiple protection and alarm modes are available in case fault is detected.

◆Copy card function helps quickly adjust product parameters.

◆Quick connect terminal provides convenience for production and after-sale service to professional equipment manufacturers.

Technical parameters

◆Product size: 132 * 43 * 61.5 (mm)

◆Mounting size: 112 * 39 (mm)

◆Operating voltage: 220VAC±10%, 50/60HZ

◆Overall power consumption: <5W

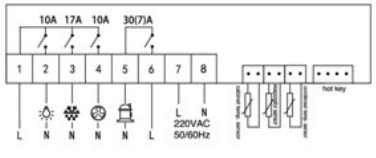
◆Temperature measuring range: -50℃~+90℃

◆Temperature measuring accuracy: ±1℃ (-40℃~+50℃); ±2℃(50℃~70℃); ±3℃(others)

◆Display resolution: 0.1℃

◆Temperature control range: -50℃~+85℃

Wiring diagram



Input/output port

Serial code	Control output				Signal input			Buzzer beep (optional)
	Cooling	Defrost (optional)	Fan (optional)	Light/external alarm(optional)	Cabinet temperature	Defrost temperature (optional)	Door switch (optional)	
A(30.17.10.10)S24.B	30 A	17 A	10 A	10 A	√	√	√	√

(Note: The table only lists the typical hardware configuration of this controller. For more details, please contact us.)

LTC–80





Functions

◆Three channels of temperature sensors are used to adjust cabinet temperature, control defrosting and monitor condenser temperature.

◆One channel of switch is used to monitor the action of door or detect sync defrost switch signal in order to constitute sync defrost network.

◆Multiple channels of control output are for compressor, defrost, fan, light/external alarm control.

◆Light/external alarm relay can be selected via software. When external alarm relay is selected, a remote bell can be connected.

◆With temperature sensor self-test function, multiple protection and alarm modes are available in case fault is detected.

◆Compressor start-up delay during hot gas defrosting can prevent compressor starting with voltage so as to lengthen its life.

◆Switch between ℃ and ℉ via menu.

◆With temperature sensor self-test function, multiple protection and alarm modes are available in case fault is detected.

◆Split type design, easy to install, separate strong and weak electricity, much safer.

Application

Medium-high end medium-low temperature medicine cabinets, kitchen cabinets, split cabinets for supermarket, open display cases, wine cabinets, etc.

Technical parameters

◆Product size: 225 * 58 * 17.5 (mm)

◆Mounting size: 208 * 36 (mm)

◆Operating voltage: 220VAC±10%, 50/60HZ

◆Overall power consumption: <5W

◆Temperature measuring range: -50~+90℃ -58~+194℉

◆Temperature measuring accuracy: ±1℃(-40℃~+50℃); ±2℃(51℃~70℃); ±3℃(others)

◆Display resolution: 0.1℃

◆Temperature control range: -50~+85℃ or -58~+185℉

Input/output port

	Control output					Signal input			Buzzer beep (optional)
	Cooling	Defrost (optional)	Fan (optional)	Light/external alarm (optional)	Demist (optional)	Cabinet temp	Defrost temp (optional)	Door switch (optional)	
Configuration 1	30 A	10 A	10 A	10 A	10 A	√	√	√	√

(Note: The table only lists the typical hardware configuration of this controller. For more details, please contact us.)

LTC-800+





Application

Refrigerated cabinets, display cabinets.

Functions

◆Two channels of temperature sensors can be used to adjust cabinet temperature and control defrosting.

◆Multiple channels of control output are for cooling, defrost, fan, alarm, demist, and light control.

◆You may select fan operation modes: continuous running or controlled by temperature difference between cold storage and evaporator.

◆Split-type: flexible and convenient for installation.

◆You can use the Power button to turn the controller to sleep directly.

◆The keyboard can be locked. User menu is separate from administrator menu, which simplifies the operation for users and allows administrator to flexibly handle different status of equipment.

Technical parameters

◆Panel size: 180 *40 (mm)

◆Mounting size: 140 * 33 * 27 (mm)

◆Operating voltage: 220VAC±10%, 50/60HZ

◆Overall power consumption: <10W

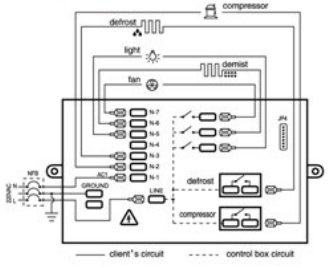
◆Temperature measuring range: -40℃~+40℃

◆Temperature measuring accuracy: ±1℃

◆Display resolution: 1℃

◆Temperature control range: -40℃~+40℃

Wiring diagram



Input/output port

Control output						Signal input	
Cooling	Defrost	Fan	Light	Demist	Alarm	Cabinet temp	Defrost temp
20 A	20 A	8 A	8 A	8 A	8 A	√	√

(Note: The table only lists the typical hardware configuration of this controller. For more details, please contact us.)

ETC-60HT





Application

Various high-temperature cold storage, direct cooling refrigerators and high-temperature direct cooling equipment.

Technical parameters

◆Product size: 75 * 34.5* 58 (mm)

◆Mounting size: 71 * 29 (mm)

◆Operating voltage: 220VAC±10%, 50/60HZ

◆Overall power consumption: <3W

◆Input/output port

◆Temperature measuring range: -40℃~+70℃

◆Temperature measuring accuracy: ±1℃(-40℃~+50℃); ±2℃(51℃~70℃)

◆Display resolution: 1℃

◆Temperature control range: -40℃~+50℃

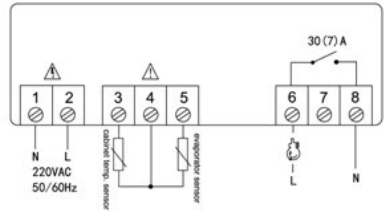
Functions

◆Two channels of temperature sensors are used to adjust cabinet temperature and control defrost.

◆One channel of control output can be used to control compressor. Compressor is off during defrosting.

◆Multiple protection and alarm modes.

Wiring diagram



Input/output port

Control output	Signal input		Buzzer beep (optional)
Cooling	Cabinet temp	Evaporator sensor (optional)	
30 A	√	√	√

(Note: The table only lists the typical hardware configuration of this controller. For more details, please contact us.)

DHC-100+





Application

Widely used for humidity control of equipment, such as seafood cold storage, humidifiers, dehumidifiers, air humidity conditioners, etc. Used for measuring and displaying relative humidity.

Functions

◆One channel of humidity sensor is used to monitor humidity.

◆One channel of output control is used for humidity control.

◆Humidity control modes can be adjusted by parameters: humidification or dehumidification

◆Multiple protection and alarm modes are available in case fault is detected.

Technical parameters

◆Product size: 75 * 34.5* 85 (mm)

◆Mounting size: 71 * 29 (mm)

◆Operating voltage: 220VAC±10%, 50/60HZ

◆Overall power consumption: <3W

◆Humidity measuring range: 0% ~ 99% RH

◆Humidity measuring accuracy: ±5%RH + 0.5 digit, (25℃); ±6% RH + 0.5 digit (10℃~40℃, 0%RH~59%RH); ±8% RH + 0.5 digit (other)

◆Annual sensor drift: ±0.5%RH

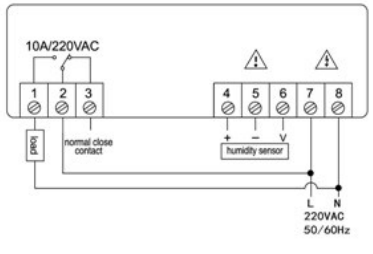
◆Display resolution: 1% RH

◆Humidity control range: 10%~99% RH

Input/output port

Control output	Signal input
Humidity control	Humidity
10 A	√

Wiring diagram



Cold Storage LED Light

Save energy for your cold storage—80%



Functions

◆Power supply: 220VAC, 50/60Hz; Power: 10W , 15W , 20W , 25W , 30W

◆Damproof, anti-freezing, highly efficient and safe

◆Protection grade: IP65; prevent the light from short circuit caused by poor waterproof property or fire caused by short circuit.

◆Constant current drive; isolation-type LED power supply; safe, without stroboflash; guaranteed service life.

Model	Rated output power	Rated output current	Input voltage range	Product size	Mounting model	Operating temperature	Operating ambient humidity	Storage ambient temperature	Storage ambient humidity	Mean time between failures(MTBF)
ledD-L-300mA-10W	10W	300mA	185Vac ~ 264Vac	139.9×139.9×61.7	Fixed by 4 tapping screws or mounting bracket	-40 ~ 55℃	10 ~ 90% RH (no-condensing)	-40 ~ 75℃	10 ~ 90% RH (no-condensing)	≥50000
ledD-L-300mA-15W	15W									
ledD-L-300mA-20W	20W			184×125×52	Fixed by 4 tapping screws or magnet					
ledD-L-300mA-25W	25W									
ledD-L-300mA-30W	30W									

Pressure Tranducer



The product is widely used in various refrigerating units.

Technical Parameters

◆ Germany ceramic chip , special ceramic material , solid ceramic sensitive

◆ Pressure chips specialized for refrigeration systems ; anti - corrosion , shock diaphragm, with strong output signals and long term stability; resistance, good performance of strong anti-corrosion to refrigerant; they are completely meet the vibration and shock requirements of refrigerating units, more stable and reliable performance;

◆ Interior sealing compound technology , high level of protection , full consid- eration of application environment of refrigerating systems; interior sealing treatment can effectively avoid ship and circuit failure caused by condensation by inner negative pressure;

◆ Anti - interference design ensures stabler output signals , it has passed anti- interference tests, such as electromagnetic radiation, electromagnetic radiation sensitivity, electrostatic discharge, etc. so it can run stably and reliably under harsh electromagnetic conditions, thus avoiding distortion or loss of measured information caused by interference signals generated by refrigerating unit motor

◆ Auto tuning and digital compensation technology helps effectively restrain errors caused by temperature drift, so the product is highly accurate and stable.

Type	Span	Accuracy	Voltage range
PA–1000–FS3–X1	–1 ~ 16 bar	1%	8 ~ 36VDC
PA–1001–FS3–X1	–1 ~ 40 bar		
PA–1002–FS3–X1	–0.5 ~ 11bar		
PA–1003–FS3–X1	–0.5 ~ 11bar		
PA–1004–FS3–X1	0 ~ 30bar		
PA–1005–FS3–X1	0 ~ 30bar		
PA–1006–FS3–X1	–0.5 ~ 7bar		

TPM-900+/910+/920/930/TPM-940A/940B



TPM–900+



TPM–910+/920



TPM–930



TPM–940A



TPM–940B

Application

Applicable to various devices that require accurate temperature measurement, such as refrigerated cabinets, display cabintes, etc.

Technical parameters

◆Product size: 64 * 31mm (TPM-900+/910+/920);
32 * 74 * 36 mm (TPM-930);
140*62mm(TPM-940A) ;
83*35.9mm(TPM-940B)

◆Mounting size: 58.4 * 25.7 mm (TPM-900+/910+/920);
71 * 29 mm (TPM-930)

◆Operating voltage: 220VAC±10%, 50/60HZ

◆Overall power consumption: <3W

◆Temperature measuring range: -50℃~120℃ or
-58℉~248℉

◆Temperature measuring accuracy: ±1℃(-40℃~50℃);
±2℃(51℃~70℃); ±3℃(other)

◆Display resolution: 0.1 or 1 ℃/℉

◆Temperature calibration value: -5~5℃

Functions

◆One channel of temperature for measurement.

◆Two channels of temperature for measurement; double digital display (TPM-940A).

◆Equipped with compressor and power indicators (TPM-940A, TPM-940B)

◆Measurement unit: ℉/℃. Temperature calibration value and display resolution can be set per actual demand.

◆Flush mounting structure; integral waterproof design; simple and artistic modeling.

◆Quick connect terminal provides convenience for production and aftersale service to professional equipment manufacturers.

TPM-950/960/970 New!



TPM-950 TPM-960 TPM-970

Application

Cake showcases, refrigerated cabinets, display cases, etc.

Functions

TPM-950

◆Match with Refulgence Series controllers.

◆Communicate with the controller, display real-time temperature.

◆Fully waterproof, safe and artistic.

◆Silk-screen in front panel can be tailored.

TPM-960/970

◆Independent panel meter.

◆Big panel, digital display. (TPM-970)

◆One channel of temperature for measurement.

◆Measurement unit: ℉/℃. Temperature calibration value and display resolution can be set per actual demand.

◆Integral waterproof design; simple and artistic modeling.

◆Quick connect terminal provides convenience for production and aftersale service to professional equipment manufacturers.

Technical parameters

TPM-950

◆Product size: 70 * 23.5 * 17.2 mm

◆Mounting size: 65.5 * 19 mm

◆Operating voltage: 5VDC±10% (It needs no independent power supply if matched with controller)

◆Overall power consumption: <1W

◆Temperature display range: -99~99.9℃ or -99~999℉

◆Display resolution: 1℃(-99℃~-10℃);
0.1℃(-9.9℃~99℃); 1℉

TPM-960/970

◆Product size: 70 * 23.5 * 34.2 mm; Mounting size: 65.5 * 19 mm (TPM-960)

◆Product size: 104 * 69 * 25 mm; Mounting size: 96 * 50 mm (TPM-970)

◆Operating voltage: 110~220 VAC±10%, 50/60Hz

◆Overall power consumption: <1W

◆Temperature measuring range: -50℃~120℃ or
-58℉~248℉

◆Temperature measuring accuracy: ±1℃(-40℃~50℃); ±2℃(51℃~70℃); ±3℃(others)

◆Display resolution: 0.1 or 1 ℃/℉

◆Temperature calibration value: -5~5℃

DST-30



Application

Solar power supply; omniseal waterproof design. It is applied to various devices that require measuring and displaying temperature, such as refrigerated cabinets, display cabinets, etc.

Technical parameters

◆Product size: 66 * 30 * 11.6 (mm)

◆Mounting size: 59.5 * 26 (mm)

◆Power supply: solar panel

◆Temperature measuring range: -50℃~150℃(When the temperature is greater than 80℃ or less than-20℃, the sensor needs to be tailored.)

◆Temperature measuring accuracy: ±1℃(-20℃~80℃); ±2℃(other)

◆Display resolution: 0.1℃

◆Operating environment: illuminance ≥100Lux, humidity: 5~85%RH, temperature: -10~45℃

DST-50



Application

Solar power supply; omniseal waterproof design. Backup battery is equipped to keep the product running without light source. It is applied to various devices that require measuring and displaying temperature, such as refrigerated cabinets, display cabinets, etc.

Technical parameters

◆Mounting size: 68 * 29 (mm)

◆Power supply: solar panel

◆Temperature measuring range: -50℃~150℃(When the temperature is greater than 80℃ or less than -20℃, the sensor needs to be tailored.)

◆Temperature measuring accuracy: ±1℃(-20℃~80℃);
±2℃(other)

◆Display resolution: 0.1℃

◆Operating environment: illuminance ≥100Lux, humidity: 5~85%RH, temperature: -10~45℃

BT-3



Features

Duel way indoorloutdoor temperature display; with body comfort degree response; big LCD display, convenient to view data; clock alarm function; beautiful and fashionable.

Technical parameters

- Power supply:DC 1.5V one AAA size alkaline battery (optional) ;
- Measuring range:
  Indoor temperature - 30 ℃ ~ 50 ℃ ;
  Outdoor temperature - 50 ℃ ~ 70 ℃ ;
  Relative humidity:20 % ~ 90 % RH ;
- Resolution:temperature : 0.1 ℃ , Humidity : 1 ;
- Accuracy:temperature : ± 1 ℃ Humidity : ± 5 % RH
- Display size:74 * 61.5 (mm)
- LCD screen size:79 * 69 (mm)

WT-1B



Features

Pen styled, portable, lengthened metal probe, temperature memory, low power consumption, low battery indicating and sensor fault indicating , switch between ℃ / F , widely applied to foodstuff industry.

Technical parameters

- Power : DC 1.5V LR44 button battery ;
- Measuring range : -50 ℃ ~ 300 ℃ (-58 ℉ -572 ℉) ;
- Resolution : 0.1 (2400 ° F) , 0.1 (others) ;
- Accuracy : ± 1 ℃ (-20 ℃ ~ 80 ℃) : ± 5 ℃ (others)
- Product size : Φ20 * 207 (mm)

WT-2

Features

Fashionable appearance , lengthened metal probe with lead wire , data keeping , switch between ℃ Max./Min. temperature memory, temperature upper and lower limit setting and exceeding temperature alarming, widely applied to HVAC and foodstuff industry .

Technical parameters

- Power : DC 1.5V AAA alkaline battery (optional)
- Measuring range : -50 ℃ ~ 300 ℃ (-58 ℉ -572 ° F)
- Resolution : 0.1 (-19.9 ℃ ~ 199.9 ℃) , 1 (others)
- Accuracy : ± 1 ℃ (20 ℃ ~ 80 ℃) : ± 5 ℃ (others)
- Product size : 59 * 105 * 19 (mm)



WT-9A



Technical parameters

- Temperature Measurement Range: -50℃~+300℃
- Resolution: 0.1℃
- Accuracy:
  ±1°C (-20 °C ~ +70 °C)
  ±2°C(-50 °C~-19 °C,71°C~169°C)
  ±3°C(170 °C~199°C)
  ±5°C(200°C ~ 219 °C)
  ±10°C(220°C ~ 269°C)
  ±15°C(270°C ~ 300 °C)
- Battery life: 1 year
- Sensor length: 160mm

SS-1 SS-2

Magnetic close to door switch



Application

Normally open typical switch,Embedded-installed,Widely applied to monitor doors and windows open and close.

Functions

- Small size,easy to install,reliable performance,abrasion resistance,high temperature resistant
- Safety sealed,worksteady.
- Easy to install and adjust.

Technical parameters

- Initial connect resistance: ≤ 150mΩ (Don't cables)
- Max switching voltage: 200VDC
- Max switching current: 500mA
- Max switching power: 10W /12VA
- Max carrycurrent : 1A
- Break contacts dielectric hipot : 150VDC
- Insulation resistance: 1000MΩ
- Mechanical endurance: 100000000
- Electic endurance: 100000 @100V,100mA
- Operating temperature: -25℃~85℃
- Storage temperature: -25℃~85℃
- Shocks: 30g ◆Vibration: 20g
- Waterproof grade: IP67
- 33mm≤sensing distance≤37mm action (SS-1)
- 30mm≤sensing distance≤40mm action (SS-2)
- Not any Magnetic environment

Sensing distance <35mm,contacts close, sensing distance>35mm,contacts open

CLD-100



Application

This detector is an economic and practical halogen detection device with latest leak detection technology. It is easy to operate, reliable in performance and compact in size.

Functions

- Detects all the refrigerants containing halogen.
- Adjusts sensitivity anytime to reach the best detection status automatically.
- Imported chip to dispose signals, with accurate detecting result
- Internal high precision and stabilivolt IC, ultra-low power consumption circuit design, more stable operation, longer service life of batteries.
- Power voltage indication in bi-color.
- Exclusive designed sensor, high sensitivity and longer life.

Technical parameters

- Operating temperature: 0℃~52℃
- Response time: instant
- Detection mode: continuous, unlimited
- Reset time: 2-10s
- MAX sensibility: 5g/yr
- Warm-up time: about 6s
- Battery life: about 20h
- Power supply: 4 AAA batteries (6VDC)
- Conform to SAE_J1627 and EN14624 standards
- Conform to RoHS

Specifications

- Overall size: 53* 50 * 175 mm
- Probing rod length: 20 cm
- Weight: 150 g

ILD-200 Infrared Leak Detector

High Tech



Functions

With the development of technology, refrigerant leak detection technology is also constantly upgrading, non-dispersive infrared gas detection technology is a new method which is applied to infrared leak detector for detection positioning with good selectivity, long life, high sensitivity; With the principle that halogen gas on a specific wavelength of infrared light absorption. When the measured gas into the infrared chamber,it will have different degrees of absorption of infrared light to calculate the halogen gas content, and then precisely positioning of the leak. . The Infrared sensor with good advantages like strongly anti-interference,widely range, responsive and so on.

Technical parameters

- IRSENSOR infrared sensor
- Sensor life :10 years
- the world's first TFT LCD display infrared leak detector
- strongly anti-interference
- can detect the latest R32, R1234yf and other refrigerants like HFCs, HCFCs, CFCs
- Accuracy : up to 2 g / year
- Per SAE-J2913, SAE-J2791, EN14624, CE.

WJL-6000



Application

This electronic halogen leak detector is an ideal economic halogen detection device. It is easy to operate, reliable in performance and compact in size.

Functions

- Detects all the refrigerants containing halogen.
- Adjusts sensitivity anytime to reach the best detection status automatically.
- Internal high precision and stabilivolt IC, ultra-low power consumption circuit design, more stable operation, longer service life of batteries.
- Bi-color indication for battery and voltage.
- Superior sensor, with higher sensitivity & longer life.
- Automatic calibration, applied to harsh environment.

Technical parameters

- Ultimate sensibility: 6g/yr
- Response time: instant
- Reset time: 2~10s
- Warm-up time: about 10s
- Power supply: 4 AAA batteries (6VDC)
- Operating temperature: 0℃~52℃;
- Detection mode: continuous, unlimited
- Conform to ROHS
- Conform to SAE_J1627 and EN14624 standards

Specifications

- Overall size: 151*35*35mm
- Probing rod length: 20cm

CPU-C



Application

This detector is a practical halogen detection device with higher cost performance. With micro-processing signal and digital processing capacity, it can manage electrical system and probe signal better and catch subtle change of signals.

Functions

- Detects all the refrigerants containing halogen
- Single-color LED display of leak
- Adjust accuracy according to real time
- 7-level sensitivity regulation in cycle and real time
- Low-voltage and undervoltage alarm
- Button-style switch is easy to operate
- Detects all halogen refrigerants, R134A, R12 and R22 etc
- Auto calibration after start: the detector automatically detects the current refrigerant concentration and takes it as zero point

Technical parameters

- Ultimate sensibility: 3g/yr
- Response time: instant
- Reset time: 2s
- Warm-up time: about 6s
- Operating temperature: 0℃~52℃;
- Detection mode: continuous, unlimited
- Battery life: about 20h

Specifications

- Overall size: 229*65*65 mm
- Probing rod length: 36.5 cm

LMC-200





Hot Sell

Functions

- Molded with aeronautical aluminum alloy, not deform in long-term use.
- Embedded design for the bottom of the scale, with hand-held device placed inside.
- Rubber corner armors prevent external shock. It's your first choice of high performance scale!

Technical parameters

- Max capacity: 100kg
- Accuracy: ±0.05% rdg+10g
- Resolution: 5g
- Power supply: 5 AAA batteries
- Operating temperature: -10℃~40℃
- Storage temperature: -15℃~50℃
- Product size: 271*271*74 mm

APP QR

iOS Android

LMC-310





Functions

Free of coil cord, real-time view and control via mobile APP, real-time control in charging and recovery process, easy operation.

Technical parameters

- Max capacity: 100kg
- Accuracy: ±0.05% rdg+10g
- Resolution: 5g
- Power supply: handle device: 5 AAA batteries
  scale body: 5 AA batteries
- Operating temperature: -10℃~40℃
- Storage temperature: -15℃~50℃
- Product size: 271*271*74 mm

LD-100/200





Functions

- Light nixie tube display
- Ergonomic design, more comfortable in operation
- Flexible stainless steel probing rod can detect hard-to-reach places
- Responds to all halogen refrigerants (including Chlorine and Fluorine), which include but not limited to:
  - CFCs e.g. R12, R11, R500, R503 etc.
  - HCFCs e.g. R22, R123, R124, R502 etc.
  - HFCs e.g. R134a, R404a, R410a, R407c,R32 etc.
  - HCs e.g. R600a, R290 etc.
  - HFOs e.g. R1234yf etc.
- With getter pump, response time and alarm clear time is reduced.
- Replaceable probe

Specifications

- Overall size: 256*53*58 mm
- Probing rod length: 417 mm

Application

Brand new appearance, unique shape; LED display of power, sensitivity, etc. clear at a glance; convenient to operate.

Technical parameters

- Sensitivity range:6(LD-100); 7(LD-200)
- Max leak detection: 3g/yr (LD-200: 7-level)
- Response time: < 3s
- Warm-up time: about 60s
- Recovery time: <10s
- Power supply: 3 AA batteries
  (LD-200: rechargeable lithium battery)
- Battery life: 4h (LD-200: 6h)
- Conform to RoHS
- Conform to SAE_J1627 and EN14624 standards

HLD-100



Functions

- Detects all the refrigerants containing halogen.
- Single-color LED display, 6-level leak indication.
- Power voltage indication in double color.
- Reset key: more convenient and efficient.
- Realtime stepless regulation of sensitivity level.

Technical parameters

- MAX sensibility: 3g/yr
- Response time: instant
- Reset time: 2s
- Warm-up time: about 6s
- Power supply: 2 "C" batteries (3VDC)
- Operating temperature: 0℃~52℃
- Detection mode: continuous, unlimited
- Battery life: about 30h in normal use
- Conform to ROHS
- Conform to SAE_J1627 and EN14624 standards

Specifications

- Overall size: 229 * 65 * 65 mm
- Probing rod length: 355 mm
- Weight: 560g

HLD-200+



Application

The detector is new and intelligent with high performance. With novel housing and artistic appearance, it is easy to carry, operate and maintain.

Functions

- Visual display: single LEDs light gradually.
- Display leak in wide range.
- Detect all the refrigerants containing halogen.
- Three-color LED display of leak.
- 7-level sensitivity regulation in cycle and real time.
- Auto calibration after start: the detector automatically detectsthe current refrigerant concentration and takes it as zero point.

Technical parameters

- Ultimate sensibility: 3g/yr
- Response time: instant
- Reset time: 2s
- Warm-up time: about 6s
- Power supply: 2 AA batteries (3VDC)
- Operating temperature: 0℃~52℃;
- Detection mode: continuous, unlimited
- Conform to SAE_J1627 and EN14624 standards
- Conform to RoHS

Specifications

- Overall size: 44* 61 * 176 mm
- Probing rod length: 30.5 cm
- Weight: 185 g

PGW-500/800
Wireless pressure gauge



Technical parameters

- Measuring range: PGW-500 is 0-500psi and PGW-800 is 0-800psi
- Resolution: 0.5psi;
- Pressure unit: MPa kPa.bar.psi kg/em 2,cmHg,inHg;
- Battery life: 300 hours
- Accuracy : pressure : ± 0.5 % FS ;
- Battery:3AA
- Wireless range: 30 meters;
- Offline records: 9000 readings;

APP QR

iOS

Android

DMG-1
Digital manifold



Technical parameters

- Internal database for refrigerant pressure and temperature
- Measures vacuum pressure. Displays vacuum degree in percentage
- Low battery indication: CR2450; battery life: operates continuously 50h
- Pressure unit: Kpa, Bar, Psi, Kg F/cm2, MmHg
- Temperature unit: ℃/℉
- Measuring range: -0.1Mpa~5Mpa
- Min: 1Kpa
- Sensor accuracy: ±0.5%
- Overload limit value: 100Bar, 10Mpa
- Temperature range: -20 ~ 60℃

Refrigerant Recovery Schematic Diagram



RCW-200 +3G



Technical Parameters

- Power supply:5V/2A（DC)
- Temperature measuring range:-40℃～+70℃
- Temperature accuracy:±0.5℃/0.9℉(-25℃~+40℃); ±1℃(other)
- Humidity measuring range:10%~99%
- Humidity accuracy:±5%RH
- Sensor:Sensirion SHT30
- Record capacity:10,000 points
- Data export:via USB in CSV or TXT format
- Battery life:above 24 HR
- Alarm output:buzzer, SMS and APP push
- Stand-by battery:3.7V lithium battery

RMS-020 3G

Cab Temperature Data Logger



	RMS-020	RMS-021	RMS-022
Global Positioning System(GPS)			●
Cloud platform data management		●	●
Phone APP data management		●	●
Record capacity：75000*2	●	●	●
Built-in thermal printer	●	●	●
File format: PDF TXT	●	●	●
Flash data copy	●	●	●
Two door switch test	●	●	●
Buzzer alarm	●	●	●
Alarm switching value output	●	●	●
SMS Alarm		●	●
Probe quantity	two channel +two expansion port	two channel +two expansion port	two channel +two expansion port

RMS-010+ 3G

Trailer Temperature



New Function

New!

GPS & GPRS
Unloading mode
Cloud data management
Mobile APP data management
Low voltage alarm via SMS
2-channel door switch

Technical Parameters

- Power supply:9～18VDC, nominal voltage: 12VDC
- Temperature control accuracy:±0.1℃
- Temperature display range:-30.0 ~100.0 ℃, resolution: 0.1℃
- Temperature measuring accuracy:±0.5℃ (0℃~40℃); ±1℃(-25℃~0℃); ±2℃ (others)
- Sensor:NTC (10K-25℃), two channels.
- Sensor length: 6M and 18M
- Record capacity:75000*2 points
- IP rating:IP65
- Printer:Built-in thermal printer
- Data export by USB:Export data by USB disk in PDF and TXT format
- Alarm:Buzzer alarm, door open alarm, alarm relay

RCW-2000 RCW-2100

+2G



New!

RCW-2000
Receiver

Technical Parameters

- Power supply:12V/2.5A（DC)
- Temperature measuring range:-10℃～+45℃
- Temperature accuracy:±0.5℃(-20℃~+40℃); ±1℃(others)
- Communication port:GPRS/WIFI (depend on model No.)
- Stand-by battery:5000 mAh, battery duration 12 hours
- Max.communication distance:1000m(in open area) when communicate with RCW-2100
- Max.connection quantity:connect with RCW-2100 max.30pcs with interval≥5min; max.12pcs with interval 1-4 min
- Alarm:SMS alarm sent by cloud.



New!

RCW-2100
Transmitter

Technical Parameters

- Power supply:Two ER14335 3200mAh lithium battery
- Temperature measuring range: -30℃～+65℃
- Temperature accuracy:±0.5℃(-20℃~+40℃); ±1℃(others)
- Temperature Sensor type:NTC
- Humidity measuring range:10%RH～100%RH
- Humidity accuracy:±5%RH
- Combined T&H Sensor type:SHT30
- Data record interval:1min to 24H
- Record capacity:20,000 points
- Working frequency:470-510MHzISM
- Communication port: LoRa

RCW-310 +2G



Bluetooth Printer

Technical Parameters

- Power supply:Rechargeable 3600mAh low temperature lithium battery
- Temperature measuring range:-30℃~+70℃
- Temperature accuracy:±0.5℃(-20℃~40℃); ±1℃(others)
- Humidity measuring range:10%RH~100%RH
- Humidity accuracy:±5%RH
- Sensor type:Temperature sensor or combined temperature-humidity sensor
- Record interval:1min~24hours adjustable, default 5min
- Off-line record capacity:20,000 points; support USB data copy
- Alarm output:LED indicator, buzzer and cloud reminder
- Communication port:GSM (850, 900, 1800, 1900 MHz)
- Onsite printing:Bluetooth printer optional
- Location:build-in GPS module

RCW-400A 3G

Wireless Data Logger





Aerials



Temperature Sensor



Humidity Sensor

Technical Parameters

- Power supply: 12V/2.5A (DC)
- Temperature measuring range: -40℃~+70℃
- Temperature accuracy: ±1.0℃(0℃~40℃); ±1℃(-25℃~0℃) ;±2℃(others)
- Humidity measuring range: 10%~99%
- Humidity accuracy: ±5%RH
- Temperature Sensor: NTC thermistor
- Humidity Sensor: Honeywell
- Record capacity: 20,000 points for each channel(Max)
- Date export:via USB in CSV or TXT format
- Battery life:above 24 HR
- Communication interface:3G, SMS
- Alarm output:buzzer and relay alarm
- Stand-by battery:3.7V lithium battery

RCW-600wifi

Smart Wireless Data Logger
Dual Temperature Channel



Technical Parameters

- Power supply:5V/1A (DC)
- Temperature measuring range:-40℃~+80℃
- Temperature accuracy:±0.5℃(-20℃~+40℃); ±1℃(others)
- Temperature Sensor type:NTC
- Temperature Sensor wire length:5M
- Data uploading interval:1min to 24H
- Off-line record capacity:20,000 points
- Alarm output:LED indicator, buzzer and Cloud reminder
- Communication port:WiFi
- Stand-by battery:3.7V 1100mAH lithium battery

RCW-800wifi

Smart Wireless Data Logger
For temperature and humidity



Technical Parameters

- Power supply:5V/1A (DC)
- Temperature measuring range:-40℃~+80℃
- Humidity measuring range:10%~95%
- Temperature accuracy:±0.5℃(-20℃~+40℃); ±1℃(others)
- Humidity accuracy:±5%RH
- Temperature Sensor type:NTC
- Humidity Sensor type:Honeywell
- Temperature/Humidity Sensor wire length:5M
- Data uploading interval:1min to 24H
- Off-line record capacity:20,000 points
- Alarm output:LED indicator, buzzer and cloud reminder
- Communication port:WiFi
- Stand-by battery:3.7V 1100mAH lithium battery

LogEt 8 （Food）

Multi-use PDF
Temperature Data Logger



Technical Parameters

- Temperature measuring range:-30~+70℃(-22~+158℉)
- Temperature accuracy:±0.5℃/0.9℉(-20℃~+40℃);
  ±1℃/1.8℉(other)
- Resolution:0.1℃
- Record interval:10 sec ~ 24 hr
- Memory capacity:16000 points (MAX)
- Alarm:multiple alarm zone
- Power supply:3.6V lithium battery (2 years),
- IP rating:IP65
- Sensor:internal
- Data management software:support WIN and Mac

RC-55

Single-use PDF
Temperature Data Logger



Technical Parameters

- Temperature measuring range:-30℃~+70℃(-22℉~+158℉)
- Temperature accuracy:±0.5℃/0.9℉(-20℃~+40℃);
  ±1℃/1.8℉(other)
- Resolution:0.1℃
- Record interval:10 sec ~ 24 hr
- Memory capacity:32000 points (MAX)
- Alarm:Three upper limits and two lower limits, LED alarm
- Power supply:3.0V CR2450 lithium battery (2 years)
- IP rating:IP67
- Auto generation of data report:support WIN and Mac

RC-18　RC-19

Single-use PDF
Temperature Data Logger



Technical Parameters

- Temperature measuring range:-30℃~70℃(-22℉~158℉)
- Temperature accuracy:±0.5℃/0.9℉(-20℃~40℃);
  ±1℃/1.8℉(other)
- Resolution:0.1℃
- Start delay:1 min ~ 6 hr
- Record interval:10 sec ~ 12 hr
- Memory capacity:16000 points (MAX)
- Alarm:LED alarm (RC-18: single alarm; RC-19: Multiple alarm)
- Power supply:3.0V CR2450 lithium battery (2 years)
- IP rating:IP67
- Auto generation of PDF report:support WIN and Mac
- Data management software:support WIN and Mac

RC-4

Multi-use Temperature
Data Logger



Magnetic holder

External sensor

Technical Parameters

- Temperature measuring range:-30℃~+60℃(internal sensor), -40℃~+85℃(optional external sensor)
- Temperature accuracy:±0.5℃/0.9℉(-20℃~+40℃);
  ±1℃/1.8℉(other)
- Resolution:0.1℃
- Record interval:10 sec ~ 24 hr
- Memory capacity:16000 points (MAX)
- Alarm:upper and lower limit, buzzer alarm
- Power supply:3.0V lithium battery CR2450, replaceable
- Sensor:Default internal temperature sensor;
  external temp sensor optional
- Data management software:support WIN and Mac

RC-61

Temperature &Humidity Data Logger





Temperature sensor



Humidity sensor

Technical Parameters

- Temperature measuring range:-40～+85℃(-40～+185℉)
- Temperature accuracy:±0.5℃/0.9℉(-20℃～+40℃); ±1℃/1.8℉(other)
- Humidity measuring range:10%~99%
- Humidity accuracy:±3%RH (25℃, 20%~90%RH), ±5%RH (other)
- Resolution:0.1℃ (temperature), 0.1%RH (humidity)
- Record interval:10 sec ~ 24 hr
- Memory capacity:16000 points (MAX)
- Alarm:upper and lower limit
- Power supply:3.6V lithium battery, replaceable
- Sensor:external temperature and humidity sensor
- Data management software:support WIN and Mac

RC-51H

USB Multi-use Temperature and Humidity Data Logger



Technical Parameters

- Temperature accuracy:±0.5℃/0.9℉(-20℃～+40℃); ±1℃/1.8℉(other)
- Humidity measuring range:10%~95%
- Humidity accuracy:±3%RH (25℃, 20%~90%RH), ±5%RH (other)
- Resolution:0.1℃ (temperature), 0.1%RH (humidity)
- Record interval:10 sec ~ 24 hr
- Memory capacity:32000 points (MAX)
- Alarm:Three upper limits and two lower limits
- Power supply:3.6V lithium battery (2 years), replaceable
- Sensor:internal temperature and humidity sensor
- Data management software:support WIN and Mac

DR-210A



Technical Parameters

- Temperature measuring range:-50.0 ℃～+120.0 ℃
- Temperature accuracy:± 0.5 ℃ for the range -30~+20 ℃ ; ± 1 for -40℃ <the temp<-30 and +20℃ <the temp<+70℃; +2℃ for other range

(If sensor wire is longer than 50meter,accuracy deviation 1%)

- Humidity measuring range:0%~95%
- Humidity accuracy:±5%RH (typical case)
- Resolution:0.1℃ (temperature), 0.1%RH (humidity)
- Record interval:1min~ 24 hr.
- Memory capacity:13000 points (MAX)
- Alarm:buzzer and alarm relay
- Sensor:two channel temperature or humidity sensor 5M
- Data interface:USB, RS-485
- Standby battery:3.6V 2200mAh NI-MH Battery

TI-21

Electronic indicator



Technical Parameters

- Temperature measuring range:-30℃~70℃(-22℉~+158℉)
- Temperature accuracy:±0.5℃/0.9℉(-20℃~+40℃); ±1℃/1.8℉(other)
- Resolution:0.1℃
- Record interval:1 ~ 10min
- Memory capacity:16000 points (MAX)
- Alarm:upper and lower limit, LED alarm
- Power supply:3.0V CR2032 lithium battery (2 years)
- IP rating:P67
- Start mode:Break tap

RC-5 RC-5+

Multi-use USB Temperature Data Logger



RC-5 RC-5+

Magnetic holder

External sensor

Technical Parameters

Function	Model	
	RC-5	**RC-5+**
Trip code		7 characters
Auto generation of PDF report		●
Read temporary PDF report		●
Password protection for PDF report		●
Cyclic record		●
Start mode	Via button	Via button, immediate start, timing start
Stop mode (settable)	Via button, stop when memory full, via software	Via button, stop when memory full, via software
Multiple start/stop		●
Temperature sensor	Internal	Internal /Optional external probe
Alarm types		Single, cumulative
Time zone		UTC 24 time system
LCD active time	15s	15s
Start delay	0~6h	0~6h
Memory capacity	32000 points	32000 points
Log interval	10s—24h	10s~12h
±5℃ temperature calibration	●	●
Alarm settings	Upper & lower limit	Multi-alarms (3 upper limits & 2 lower limits at maximum)
Alarm delay		0~10h
Package	Blister	Box

ECM-400

Parallel Unit Controller



Product descriptions

This parallel unit controller is a universal controller that applicable for piston (scroll) compressor 2 to 4 parallel units. It can control the main liquid solenoid valve; it includes a communication interface, which can realize remote monitoring when connected with the platform through the things-networking module; it also consists of a cooling water temperature sensor (water pump anti-freezing).

Features

◆The compressor dead zone control and management through the inlet pressure control;

◆Real-time compressor detection with various warning alarm signals is more convenient for after-sales services;

◆Multiple cooling modes: water cooling, air cooling and evaporating cooling that satisfy various requirements during system operations;

◆The 7-inch industrial touch screen displays the real-time working conditions and present a friendly human-computer interface.

Technical Parameters

◆Inlet pressure: -1.0 to 16.0 bar (4 to 20ma current signal)

◆Discharge pressure: -1.0 to 40.0 bar (4 to 20ma current signal)

◆Discharge temperature: -40.0 to 110.0 ℃

◆Oil-way temperature: -40.0 to 110.0 ℃