

新基业汽车电子创立于1991年，作为中国车用环境控制产品研发与生产的中坚力量，多年来新基业秉承“专注、专心、专一”的经营理念，扎根汽车电子行业，深度研发车用环境控制技术，为各种高水平车用环境及电气控制产品及技术的国际推广和国内应用做出了卓越贡献，尤其是在汽车行业，新基业公司赢得了国内外广大车用空调相关企业的同声赞誉，各种先进的技术和设备在厂家取得了良好的应用，并取得数十项国内外专利，在一定程度上提高了中国车用环控产业的技术水平和竞争实力。

Zhengzhou Newbase Auto Electronics Co., Ltd. is established in 1991. For over 20 years, NEWBASE has developed advanced technology strength, strong production capacity and talents of technology development team. Adhering to the company philosophy Focus, Attention, Professional, NEWBASE devote to leading the vehicle climate control industry. We have made fabulous contribution to the climate control technology development domestic and abroad, while getting high approval from HVAC manufacturer and related enterprises. NEWBASE would be keep going to offer more advance technology and excellent product.

**主旨：**车用环境控制产品的专业配套和OEM供应；

**配套客户：**大冷王、SAFKAR、康维特、电装、新同创、劲达、太昌空调、博格思众、贝尔、三电、松芝、宇通客车、金龙客车、三一重工、福田、小金龙、中通客车、神钢、TATA、M&M等。

**Main purport:** Supply the excellent Vehicle environment control product and advance technology

**Partners:** Thermo king; SAFKAR; Konvekta; Denso; NTCAC; Kingtech; OPAT; Bergstrom; BEHR; SANDEN; SONGZI; YUTONG BUS; KINGLONG BUS; SANY; FOTON; HIGER; ZHONGTONG PASSENGER CAR; KOBELCO; TATA; Mahindra, etc.

**快速的交货与服务：**新基业公司的产品透过各级分公司和派出机构向世界各地辐射销售。由熟知客户需求的专业工程师直接面对客户，根据客户的设计要求，和客户一起对产品进行设计和选型，同时有针对性的向客户推荐各种适宜的配套产品。确保用户以最合理的性价比达到最完美的效果。

#### **Fast delivery and service**

NEWBASE set the branch office or sales agent around the world. Our engineers would offer you professional technology support. According to the specification of AC system, technical people would help you with model-selection or design suggestion. It helps you to get the most suitable product.

**AE技术支持：**我们的应用工程师帮助您将您所选用的产品良好的设计和应用到您的系统工程中；同时，他们又具有广泛的汽车产品研发、调试的知识和经验，可以帮助您解决大量的实际设计和应用过程中技术问题。

#### **AE technology support:**

Newbase technology support engineers help you to install and test the system, with adequate knowledge and experience in HVAC system, they could help you with kinds of questions about AC system

**良好的售后服务：**新基业公司良好的技术支持和售后服务，将有助于我们的客户免除任何的后顾之忧；所有的技术支持和售后服务人员都经过严格的专业培训，足以为客户提供各种技术方案，产品选型，技术安装调试，客户培训等服务。

#### **After sale service:**

NEWBASE offer super technical support for after sales.

All the after sales technical people are required to take regular technical training. They are knowledgeable enough to release you from the after-sales trouble.

## Chapter 6

### 冷藏车控制器

Transport refrigeration unit controller

# CL 200201-a 冷藏车控制器/CL 200201-a Refrigeration Unit Controller



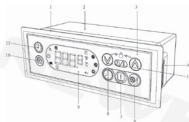
## ★功能说明 Function

CL 200201-a冷藏车制冷控制器适用于需要冷冻储藏的冷藏车和集装箱等制冷系统中。面板采用LED显示，能够为用户显示冷藏温度及除霜温度。本控制器有自动、冷冻、冷藏、化霜、加热、按键锁等功能。用户只需设定温度和化霜周期，控制器就可以自动进行制冷和自动化霜，并维持用户所需的温度。

CL 200201-a controller applies to refrigeration & freezing control system for truck & trailer container.  
Main functions: LED display, auto control, error alarm, key guard, etc. Users set the temp and defrost cycle, the controller would work on cooling and defrost automatically as setting.

## ★应用实例 Application

源河昌宇  
CHANGYU CHINA



- |                |                                 |
|----------------|---------------------------------|
| 1、前板           | 1. Front cover                  |
| 2、后壳           | 2. Back cover                   |
| 3、贴膜           | 3. PET cover                    |
| 4、卡扣           | 4. Retaining clip               |
| 5、设定温度/除霜周期调节键 | 5. Set temp/ defrost cycle      |
| 6、冷冻选择键        | 6. Freezing switch              |
| 7、保鲜选择键        | 7. Refreshing switch            |
| 8、除霜周期设定键      | 8. Defrost cycle setting switch |
| 9、LED显示屏       | 9. LED display                  |
| 10、手动除霜键       | 10. Manual defrost switch       |
| 11、电源开关键       | 11. Power switch                |

## ★技术参数 Technical data

电源 Power supply DC24V/DC12V

功耗 Power 3W

外形尺寸 Dimension 142X50X67mm

使用温度范围 Ambient temperature -40°C-80°C(5%~95%RH non-condensing)

存储温度范围 Storage temperature -10°C-70°C(5%~95%RH non-condensing)

显示 Display LED

面板保护等级 Protection IP43

EMC等级 EMC EN50081&EN50082-2

重量 Weight 165g

## 基本输入 Input

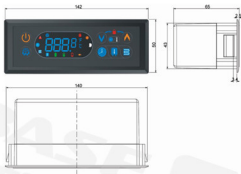
- 1) 回风口温度传感器 Air inlet temp sensor
- 2) 出风口温度传感器 Air outlet temp sensor
- 3) 除霜传感器 Defrost sensor
- 4) 电源缺相、逆向信号输入  
Power shortage & reversal signal input;
- 5) 备电监测信号输入 Stand-by power signal input;
- 6) 汽车电源 ACC Power (battery);
- 7) 冷凝压力输入 Condenser fan pressure input;
- 8) 压力开关 Pressure switch

## 基本输出 Output

- 1) 蒸发风机 Evaporator fan (Max.0.3A)
- 2) 冷凝风机 Condenser fan (Max.0.3A)
- 3) 压缩机离合器 Compressor control output (Max.0.3A)
- 4) 除霜控制输出 Defrost control output (Max.0.3A)
- 5) 加热控制输出 Heating output (Max.0.3A)
- 6) 备电控制输出 Stand-by power output (Max.0.3A)

## 备注 Memo

# CL 200201-b 全电单温区控制器冷藏车控制器 CL 200201-b DC Power Refrigeration Unit (one chamber) Controller



## ★功能说明 Function

CL200201-b 型控制器是为全电冷藏车设计的控制面板。面板采用LED显示，能够为用户显示冷藏温度及除霜温度。本控制器有自动、冷冻、冷藏、化霜、加热、按键锁等功能。用户只需设定温度和化霜周期，控制器就可以自动进行制冷和自动化霜，并维持用户所需的温度。

CL 200201-b controller is specially designed for DC powered refrigeration unit

Main function: refrigerate, refresh, defrosting, error alarm, key guard, etc.

User set the temp and defrost cycle, the controller would work on cooling and defrost automatically as setting.

## ★应用实例 Application

博阳冷藏车  
Boyang refrigeration truck

## ★技术参数 Technical data

电源 Power supply DC24V/DC12V

功耗 Power 3W

外形尺寸 Dimension 142X50X67mm

使用温度范围 Ambient temperature -40℃-80℃5%~95%(R/Non-condensing)

存储温度范围 Storage temperature -10℃-70℃5%~95%(R/Non-condensing)

显示 Display LED

面板保护等级 Protection IP 43

EMC等级 EMC EN50081&EN50082-2

重量 Weight 165g

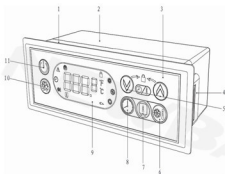
### 基本输入 Input

- 1) 箱内制冷温度传感器 Interior refrigerating temp. Sensor
- 2) 蓄冷温度传感器 Cold accumulation temp. sensor
- 3) 压力检测输入 Pressure detection input
- 4) 汽车电源 (蓄电池) ACC (battery)
- 5) 背光灯电源 Backlight power

### 基本输出 Output

- 1) 蒸发风机控制输出 Evaporator fan control (含蓄冷切换) (including switch of cold accumulation)
- 2) 冷凝风机控制输出 Condenser fan control
- 3) 压缩机控制输出 Compressor control
- 4) 除霜控制输出 Defrosting control
- 5) 蓄冷控制输出 Cold accumulation control

### 备注 Memo



- |                |  |
|----------------|--|
| 1、前板           | 1, Front cover                           |
| 2、后壳           | 2, Back cover                            |
| 3、贴膜           | 3, PET cover                             |
| 4、卡扣           | 4, Retaining clip                        |
| 5、设定温度/除霜周期调节键 | 5, Temp setting/defrost cycle regulation |
| 6、冷冻选择键        | 6, Freezing switch                       |
| 7、保鲜选择键        | 7, Refreshing switch                     |
| 8、除霜周期设定键      | 8, Defrost cycle setting                 |
| 9、LED显示屏       | 9, LED display                           |
| 10、手动除霜键       | 10, Manual defrost switch                |
| 11、电源开关        | 11, Power switch                         |

# CZ200202冷藏车控制器/CZ200202 Refrigeration Unit Controller



## ★功能说明 Function

Cz200202冷藏车空调控制器适用于需要冷冻储藏的冷藏车和集装箱等制冷系统中。面板采用LED显示，能够为用户显示冷藏温度及除霜温度。本控制器有自动、冷冻、冷藏、化霜、加热、按锁键等功能。用户只需设定温度和化霜周期，控制器就可以自动进行制冷和自动化霜，并维持用户所需的温度。

Cz200202 controller applies to refrigeration & freezing control system for truck & trailer container.

Main functions: LED display, auto control, error alarm, key guard, etc. Users set the temp and defrost cycle, the controller would work on cooling and defrost automatically as setting.

## ★应用实例 Application

出口泰国  
Thailand

## ★技术参数 Technical data

电源 Power supply DC24V/DC12V

功耗 Power 3W

外形尺寸 Dimension 142X50X67mm

使用温度范围 Ambient temperature -40°C-80°C(5% - 95%RH non-condensing)

存储温度范围 Storage temperature -10°C-70°C(5% - 95%RH non-condensing)

显示 Display LED

面板保护等级 Protection IP43

EMC等级 EMC EN50081&EN50082-2

重量 Weight 165g

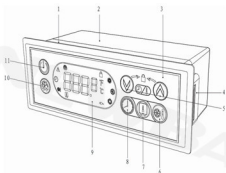
## 基本输入 Input

- 1) 回风口温度传感器 Air inlet temp sensor
- 2) 出风口温度传感器 Air outlet temp sensor
- 3) 除霜传感器 Defrost sensor
- 4) 电源缺相、逆向信号输入  
Power shortage & reversal signal input ;
- 5) 备电监测信号输入 Stand-by power signal input ;
- 6) 汽车电源 ACC Power (battery) ;
- 7) 冷凝压力输入 Condenser fan pressure input(GND) ;
- 8) 压力开关 Pressure switch

## 基本输出 Output

- 1) 蒸发风机 Evaporator fan(Max.0.3A)
- 2) 冷凝风机 Condenser fan(Max.0.3A)
- 3) 压缩机离合器 Compressor control output(Max.0.3A)
- 4) 除霜控制输出 Defrost control output(Max.0.3A)
- 5) 加热控制输出 Heating output(Max.0.3A)
- 6) 备电控制输出 Stand-by power output(Max.0.3A)

## 备注 Memo



- |                |                                 |
|----------------|---------------------------------|
| 1、前板           | 1. Front cover                  |
| 2、后壳           | 2. Back cover                   |
| 3、贴膜           | 3. PET cover                    |
| 4、卡扣           | 4. Retaining clip               |
| 5、设定温度/除霜周期调节键 | 5. Set temp/ defrost cycle      |
| 6、冷冻选择键        | 6. Freezing switch              |
| 7、保鲜选择键        | 7. Refreshing switch            |
| 8、除霜周期设定键      | 8. Defrost cycle setting switch |
| 9、LED显示屏       | 9. LED display                  |
| 10、手动除霜键       | 10. Manual defrost switch       |
| 11、电源开关键       | 11. Power switch                |

# CL200203-a 双温区冷藏车控制器 CL200203-a Refrigeration Unit (two chambers) Controller



## ★功能说明 Function

CL200203-a 型控制器主要用在需要两个温区独立的冷藏车控制系统中。

主要功能：控制器为冷藏车双温区设计的，可以实现两个温区独立的温度控制、自动除霜功能、并有温度校准功能、故障报警功能等。

CL200203-a controller is applied for the refrigeration unit which has two separated chambers.

Main function: independent temperature control for two chambers, auto defrost, temperature correction, error alarm.

## ★应用实例 Application

出口马来西亚  
Malaysia

## ★技术参数 Technical data

电源 Power supply DC24V/DC12V

功耗 Power 3W

外形尺寸 Dimension 137X54X56mm

使用温度范围 Ambient temperature -40°C-80°C 5% - 95%RH non-condensing

存储温度范围 Storage temperature -10°C-70°C 5% - 95%RH non-condensing

显示 Display LED

面板保护等级 Protection IP43

EMC等级 EMC EN50081&EN50082-2

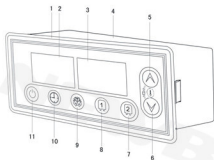
重量 Weight 270g

## 基本输入 Input

- 1) 箱内温度传感器1  
Refrigerate chamber temp. sensor1
- 2) 箱内温度传感器2  
Refrigerate chamber temp. sensor2
- 3) 除霜温度传感器 Defrost sensor
- 4) 压力检测输入 Pressure detection input
- 5) 汽车电源 (蓄电池) ACC (battery)
- 6) 背光灯电源 Backlight power

## 基本输出 Output

- 1) 蒸发风机控制输出1  
Evaporator fan control 1
- 2) 蒸发风机控制输出2  
Evaporator fan control 2
- 3) 冷凝风机控制输出 Condenser fan control
- 4) 压缩机离合器 Compressor clutch
- 5) 除霜控制输出 Defrosting control

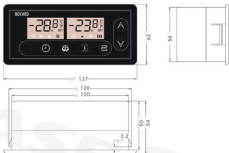


- 1、前壳
- 2、温区1显示屏
- 3、温区2显示屏
- 4、后壳
- 5、参数上调键  
(温度、除霜周期等)
- 6、参数下调键  
(温度、除霜周期等)
- 7、温区2制冷键
- 8、温区1制冷键
- 9、手动除霜键
- 9、除霜时间设定键
- 10、电源开关

1. Front cover
2. Chamber 1 display
3. Chamber 2 display
4. Back cover
5. Parameter setting +  
(setting temp, defrost period, etc)
6. Parameter setting -  
(setting temp, defrost period, etc)
7. Chamber 2 freezing switch
8. Chamber 1 freezing switch
9. Defrost cycle setting switch
10. Power switch

## 备注 Memo

# CL 200203-b 全电双温区冷藏车控制器 CL 200203-b DC Power Refrigeration Unit (two chambers) Controller



## ★功能说明 Function

CL 200203-b 型控制器主要用在需要两个温区独立的全电冷藏车控制系统中

主要功能: 控制器为全电冷藏车双温区设计的, 可以实现两个温区独立的温度控制、自动除霜功能、压缩机调速功能、并有温度校准功能、电量显示和报警功能。

CL200203-b controller is applied for the DC power refrigeration unit which has two separated chambers.

Main function: independent temperature control for two chambers, auto defrost, compressor speed regulation, temperature correction, power volume display, error alarm.

## ★应用实例 Application

博阳冷藏车

Boyang refrigeration truck

## ★技术参数 Technical data

电源 Power supply DC24V/DC12V

功耗 Power 3W

外形尺寸 Dimension 137X54X56mm

使用温度范围 Ambient temperature -40°C-80°C(5% - 95%RH/non-condensing)

存储温度范围 Storage temperature -10°C-70°C(5% - 95%RH/non-condensing)

显示 Display LED

面板保护等级 Protection IP 43

EMC等级 EMC EN50081&EN50082-2

重量 Weight 270g

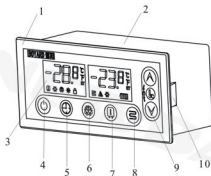
## 基本输入 Input

- 1) 箱内制冷温度传感器  
Refrigerate chamber temp. sensor
- 2) 蓄冷温度传感器 Cold accumulation temp. sensor
- 3) 压力检测输入 Pressure detection input
- 4) 汽车电源 (蓄电池) ACC (battery)
- 5) 背光灯电源 Backlight power
- 6) 压缩机温度检测 Compressor temperature detection
- 7) 压缩机开启检测输入 Compressor detection

## 基本输出 Output

- 1) 蒸发器风机控制输出 (含蓄冷切换)  
Evaporator fan control (including switch of cold accumulation)
- 2) 冷凝风机控制输出 Condenser fan control
- 3) 压缩机控制输出 Compressor control
- 4) 除霜控制输出 Defrosting control
- 5) 蓄冷控制输出 Cold accumulation control

## 备注 Memo



- |                |                                      |
|----------------|--------------------------------------|
| 1、前壳           | 1. Front cover                       |
| 2、后壳           | 2. Back cover                        |
| 3、LED显示屏       | 3. LED display                       |
| 4、电源开关键        | 4. On/off switch                     |
| 5、除霜周期设定键      | 5. Defrost cycle setting switch      |
| 6、手动除霜键        | 6. Manual defrost switch             |
| 7、冷冻选择键        | 7. Freezing switch                   |
| 8、蓄冷控制键        | 8. Cold accumulation control switch  |
| 9、设定温度/除霜周期调节键 | 9. Temp/defrost cycle setting switch |
| 10、卡扣          | 10. Retaining clip                   |

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