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KL- CS60W High-Power dehumidifier Manual



Please read the instruction manual before installing and using the product.



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1. Overview

The high-power dehumidifier KL-CS60W uses semiconductor refrigeration dehumidification. It actively draws humid air from a closed space into the dehumidification duct under the action of a fan. The water vapor in the air condenses into water after passing through the semiconductor refrigeration mechanism, and then is discharged from the cabinet through the water pipe, which can achieve a very good dehumidification effect.

Cooling type : When set to 0, it is in cooling type. When the ambient humidity is higher than the maximum humidity value (humidity setting value), the dehumidifier will automatically turn on to dehumidify; when the ambient humidity is lower than the minimum humidity value (humidity setting value minus humidity hysteresis value), dehumidification will stop. When the ambient temperature is higher than the maximum set temperature value (temperature setting value), the fan cooling will start; when the temperature is lower than the set temperature value (temperature setting value minus temperature hysteresis value), the cooling fan will stop working.

Heating type : When set to 1, it is in heating type. When the ambient temperature is lower than the minimum set temperature (temperature setpoint), heating starts and stops when the temperature is higher than the maximum set temperature (temperature setpoint plus temperature hysteresis). If condensation dehumidification is required at the same time, set the humidity value. When the ambient humidity is higher than the maximum set humidity (humidity setpoint), the dehumidifier will automatically start dehumidification; when the ambient humidity is lower than the minimum humidity (humidity setpoint minus humidity hysteresis), dehumidification stops. When the dehumidification function is manually started, the dehumidifier will continue to dehumidify until the dehumidification function is manually turned off.



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Anti-frost and anti-icing function : Real-time monitoring of the working surface temperature of the condenser to prevent frost and ice formation during dehumidification due to excessively low surface temperature, which would affect drainage performance.

Air circulation function : When the air inside the cabinet is still, the temperature and humidity vary in different parts. The dehumidifier provides air circulation, making the temperature and humidity more even throughout the cabinet and enabling more effective monitoring of humidity and ambient temperature.

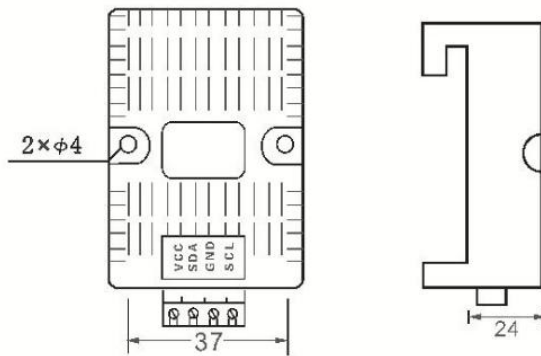
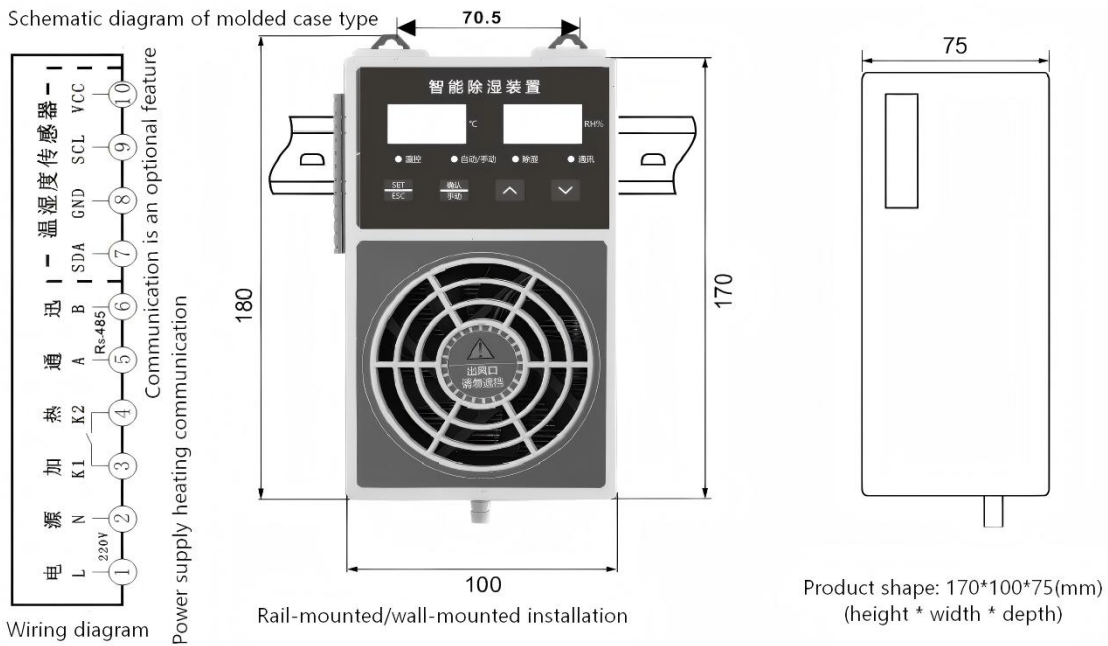
2. Technical parameters

Input Specifications	1-channel temperature and humidity input module	working power supply	AC/DC 85-260V
Measurement range	Temperature: -20°C to 120 °C; Humidity 5%RH-95%RH	Product power	Dehumidification power is 60W when started.
Output Specifications	2- channel relay output, 250VAC/3A or 12VDC /3A	Work environment	Temperature 0-50°C, Non-corrosive environments with humidity ≤85%RH
Control method	Position control	Basic error	Humidity: ±3%RH (10%RH-90%RH) ±5%RH (0%RH-99%RH)
Resolution	Temperature 0.1°C, humidity 1%RH		



3. Installation and wiring

3.1 Controller wiring and dimension diagram



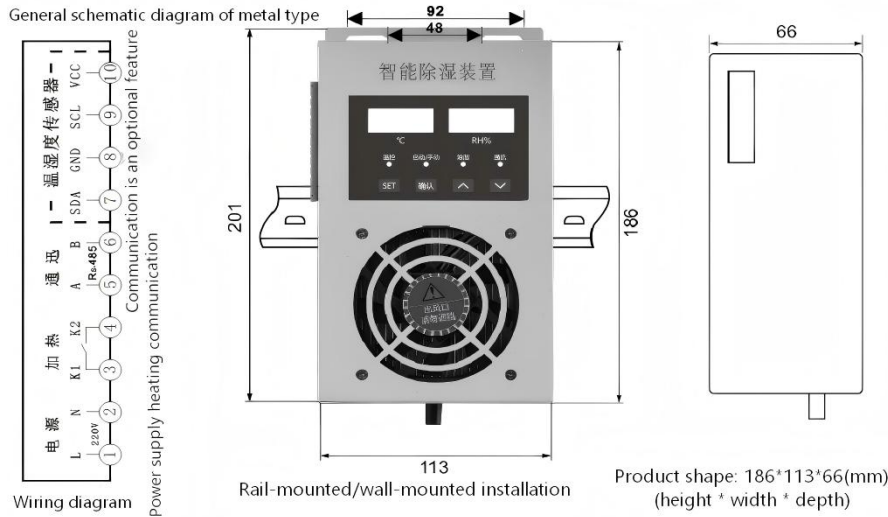


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3.2 Temperature and humidity sensor size diagram:



3.3 Sensor installation method: Composite

- (1) Use 35mm guide rail for installation or screw fixing.
- (2) Wall-mounted installation
- (3) Please use wire with a cross-sectional area of 0.2 square millimeters or larger for the connection between the temperature and humidity sensor and the controller.

When connecting, ensure the markings on the sensor and controller correspond.

4. Programming and usage

4.1 Panel appearance





4.2 Indicator light definition:

1. The temperature control lamp: Remains on after reaching the threshold temperature.
2. Automatic/Manual indicator light: Always on when it is in automatic mode.
3. Dehumidifying light:Constantly on indicates dehumidification mode.
4. Communication light: Flashes during 485 communication.

4.3 Parameter setting menu:

Serial Number	Parameter name	Parameter range	Illustrate
1	Temperature control method	0 or 1	Factory default setting is 0 (setting 0 is cooling type, setting 1 is heating type).
2	Temperature control value	0-100°C	The factory setting is 50 °C (adjustable from -10 to 80 °C).
3	Humidity control value	0-99.9%RH	Factory setting is 85%RH (adjustable from 20% to 85 %).
4	Mailing address	1-255	This is used to set the device's local communication address, which is unique throughout the entire communication bus.
5	Enable temperature control mode	0 or 1	Factory default setting is 0 (0 means disabled , 1 means enabled).
6	Baud rate	1-3	Factory default setting is 3 (Settings 1-2400, 2-4800, 3-9600)

4.4 Button Description

Press and hold the left 1 button,SET button for 3 seconds.↓

Show menu page





Press the right 1/2 button to switch menus.↓

Press the left 2nd key to display the sub-menu and adjust parameters.↓

Menu page displays Out: The temperature control mode is set to 0 at the factory (0 for cooling type and 1 for heating type).

Press the ▲+ key to change to -1 heating type. If F01-1 heating type is displayed, press the ▼- key to change to -0 cooling type. After completing the first setting in the menu, click the left second key to automatically save the settings and exit the settings menu to return to the main monitoring page.



The menu page displays tEP, and the temperature control value is 50. The factory setting is 50 °C. Press the ▲+ key to change it to 40. If 40 is displayed, press the ▼- key to change it to 5. After completing the second setting of the menu, click the left 2 key to automatically save the settings and exit the settings menu to return to the main monitoring page.



The menu page displays HUd, with humidity control values of 065. The factory setting is 65RH% (adjustable from 20% to 90%RH).

Press the ▲+ key to change it to 090. If 090 is displayed, press the ▼- key to change it to 020. After completing the setting of the third item in the menu, click the left second key to save the set parameters and exit the settings menu to return to the main monitoring page.



The menu page displays Adr, and the communication address is 001. The factory default setting is 1 (adjustable from 1 to 255).

Press the ▲+ key to change it to 225. If 225 is displayed, press the ▼- key to change it to 001. After completing the fourth setting in the menu, click the left second key to save the parameters and exit the settings menu to return to the main monitoring page.



The menu page displays the Enb enable temperature control mode as 0, which disables the heating/cooling type. The factory setting is 0 (0 means disabled , 1 means enabled).

Press the ▲+ key to change it to 1 to enable. If 1 is displayed as enabled , press the ▼- key to change it to 0 to disable. After completing the first setting in the menu, click the left second key to automatically save the settings and exit the settings menu to return to the main monitoring page.



The menu page shows that the factory default Bsp setting is 3 (Settings 1-2400, 2-4800, 3-9600).

pressing the ▲+ and ▼- keys to complete the first menu item setting, click the left second key to automatically save the settings and exit the settings menu to return to the main monitoring page.



Press the left 2 key to confirm saving and exit the menu.

4.4 Maintenance and repair

The dehumidifier should be calibrated annually. If the dehumidifier's error exceeds the acceptable range, and cleaning and drying the internal components cannot restore its accuracy, the dehumidifier should be considered faulty and returned to the manufacturer for repair. Sensors should be protected from immersion in water and prolonged overheating to avoid damaging sensitive components.

4.5 Transportation and storage

4.51 The handling and transportation of dehumidification devices shall comply with the provisions of GB/T191-2000 regarding handling with care, upward orientation, moisture protection, and stacking limits.

4.52 Dehumidifiers should be stored in warehouses with an ambient



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temperature of -20 to 55 °C and a relative humidity of no more than 85%. They should not be stored in the open air. The warehouses should also be moisture-proof and well-ventilated, and should be kept away from places with strong magnetic fields, high temperatures, or corrosive gases.

4.6 After-sales service

1-2 months from the date of manufacture . If the damage is caused by improper use by the user or the warranty period has expired, an appropriate repair fee will be charged.

5. Contact Us



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