

Parameter Check

Serial No.	Parameter Code	Parameter Name	Display Range	Description
4	t1	Device External Temperature	-19~99°C	Can check the device's working efficiency; cannot be controlled.
5	t2	Cooling Sheet Temperature	-19~99°C	
6	P	Cooling Sheet Current	0.1~2.0A	
7	F	Fan Current	0.1~2.0A	

VI. Fault Code Description

The dehumidification light flashing indicates a fault. Press the **SET** button to check the fault code:

Fault Code	Alarm Meaning	Solution
E1	Fan Uncontrollable	Fault in the fan or control circuit; contact our company's after-sales personnel.
E2	Fan Blocked Alarm	Check if there is any foreign object inside the fan.
E4	Cooling Sheet Uncontrollable	Fault in the cooling sheet or control circuit; contact our company's after-sales personnel.
E8	Cooling Sheet Efficiency Drop	

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VIII. Maintenance and Repair

The device shall undergo metrological verification once a year. If the device's error exceeds the allowable range, and cleaning the internal parts and long-term non-thermal recovery cycle do not resolve the issue, the device shall be returned to the manufacturer for inspection and repair. The sensor shall be protected from water exposure and contact with process media to avoid damaging the sensitive components.

6.1 Transportation and Storage

6.1.1 During the handling and transportation of the device, comply with the requirements specified in GB/T191-2000, including handle with care, keep upright, avoid inversion, and observe stacking limits. 6.1.1 During the handling and transportation of the device, comply with the requirements specified in GB/T191-2000, including handle with care, keep upright, avoid inversion, and observe stacking limits. 6.1.2 The device shall be stored in a warehouse with an ambient temperature of -20~+55 and a relative humidity not exceeding 85%. Outdoor storage is prohibited. The warehouse shall also be moisture-proof, well-ventilated, and free from strong vibration, excessive dust, and harmful gases.

6.2 After-Sales Service

A free repair service is provided for the device within 24 months from the date of factory shipment. If the damage is caused by the user's improper use, or the device has exceeded the warranty period, appropriate repair fees will be charged.

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VII. Communication Section (MODBUS-RTU)

Communication baud rate: 9600; parity bit: no parity; function codes: 03 (read), 06 (write).

Data Code	Data Content	0X15 Working Status Description: bit1: Fan (1: Operating; 0: Not Operating) bit0: Condenser Plate (1: Operating; 0: Not Operating)
0X01	Ambient Temperature	
0X02	Ambient Humidity	
0X03	Cooling Sheet Temperature	
0X10	Humidity Start Value	
0X11	Humidity Stop Value	
0X14	Communication Address	
0X15	Fan and Condenser Plate Working Status	

Example of reading the humidity startup value: Send 010300000001D5CA (the reading is in hexadecimal)

Communication Address	Function Code	Data Code	1 Byte	Check Code
01	03	0001	0001	D5CA

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产品合格证

符合标准: GB/T 22264

检验员: 检 01

出厂日期: 见产品或盒贴出厂编号

本产品经检验合格,准予出厂。

C-Lin 欣灵电气股份有限公司
XINLING ELECTRICAL CO., LTD.

C-Lin

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National High-Tech Superconducting Power Electronics Co., Ltd.

C-Lin 欣灵

使用说明书
Products Instructions

HCS-15

Dehumidification Device Instruction Manual

Thank you very much for using C-Lin brand intelligent dehumidification device. Please read the instruction manual before using the product!

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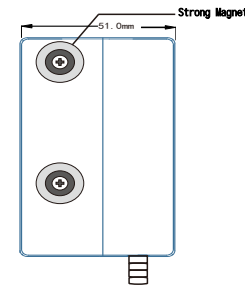
I. Overview

The intelligent dehumidification device adopts the semiconductor refrigeration dehumidification method. It actively draws the humid air in the confined space into the dehumidification air duct via the fan. The water vapor in the air condenses into water after passing through the semiconductor refrigeration mechanism, and then is discharged out of the cabinet through the water guide pipe, which can achieve excellent dehumidification effect.

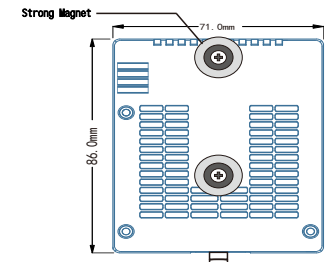
II. Main Technical Parameters

- 2.1 Input Specification: 1-channel temperature and humidity input module (built-in)
- 2.2 Measurement Range: Temperature: -19 ~ 99° C Humidity: 20% ~ 99%RH
- 2.3 Basic Error:
 - Temperature: ±0.5° C (10° C ~ 50° C), ±1.5° C (50° C ~ 99° C)
 - Humidity: ±3%RH (70%RH ~ 99%RH), ±5%RH (20%RH ~ 70%RH)
- 2.4 Resolution: Temperature: 1° C, Humidity: 1%RH
- 2.5 Working Power Supply: AC/DC 85-265V, 50/60Hz; the default dehumidification power is 15W. Please specify if other power ratings are required for ordering.
- 2.6 Working Environment: Temperature 0-50° C, Humidity 85%RH, non-corrosive occasions
- 2.7 Recommended Dehumidification Space: 0.5 ~ 1m³ Power Table (at 30° C, 80%RH environment, water displacement error: ±15%)

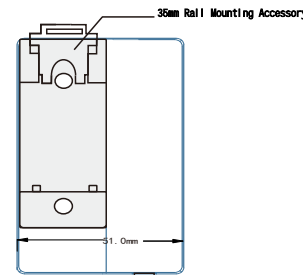
Dehumidification Power	15W	Water Displacement	160ml/24h
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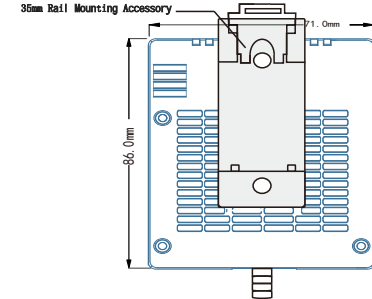
Side Strong Magnetic Installation



Back Strong Magnetic Installation



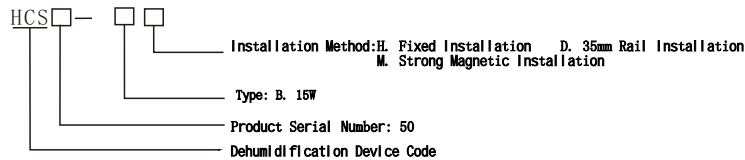
Side Rail Installation



Back Rail Installation

V. Operation and Usage

III. Model Selection



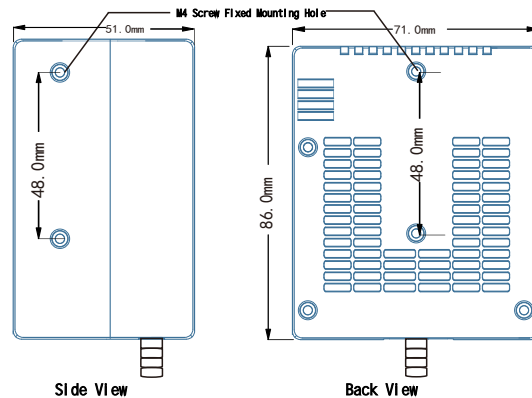
IV. Installation and Wiring

3.2 Overall Dimensions: 867151 (Height/Width/Thickness, mm)

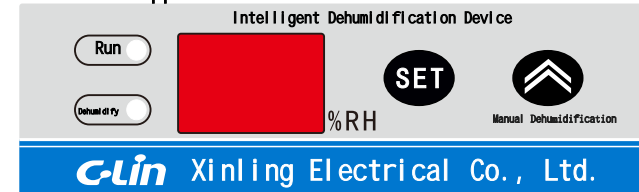
3.1 Wiring Diagram

1	2	3	4
L	N	A	B
Power		Communication	

Communication is an optional function



5.1 Panel Appearance



5.2 Programming Instructions

SET key: Long press the SET key to enter the parameter setting page. Short press to modify the humidity startup value (P1), humidity stop value (P2), and communication address (P3) in sequence. Then short press to check the device external temperature (t1), cooling plate temperature (t2), cooling plate operating current (P), and fan operating current (F) in sequence.

Value key: Used to modify parameter values, with cycle increment from 1 to 99.

Setting Parameter Table

Serial Number	Parameter Name	Parameter Code	Setting Range	Description
1	Humidity Startup Value	P1	50~99%RH	Factory default: 75 RH Recommended setting: 70~80%RH
2	Humidity Stop Value	P2	40~99%RH	Factory default: 60 RH Recommended setting: 60~70%RH
3	Communication Address	P3	1~99	Used to set the local communication address of the instrument; this address must be unique in the entire communication bus.