EBYTE

成都亿佰特电子科技有限公司

Chengdu Ebyte Electronic Technology Co.,Ltd.

Wireless Modem

用户使用手册



MA01-XHXX0x00-V2（P） Differential Analog Series

本说明书可能会随着产品的改进而更新，请以最新版的说明书为准

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Chapter 1: Product Overview

1.1.Product Overview

The MA01-XHXX Differential Analog Series is a high-precision differential analog input module based on the MODBUS RTU protocol, designed specifically for industrial automation, process control, and data acquisition systems. This series employs advanced differential signal input technology to effectively suppress common-mode noise, significantly improving signal measurement accuracy and system reliability in complex electromagnetic environments.

Product Design Philosophy

Based on the principles of industrial smart manufacturing, this product is designed to provide users with a highly reliable, high-precision, and easily integrable analog input solution. Through its differential input architecture and multi-layered anti-interference design, it ensures stable operation in harsh industrial environments.

Core Values

- Wide Market Applicability: Available in channel configurations ranging from 1 to 12 channels to meet the differential analog input requirements of applications of various scales.
- Leading anti-interference technology: Utilizes a differential input structure to effectively suppress common-mode noise, ensuring high stability and accuracy in signal acquisition.
- Comprehensive product portfolio: Fills gaps in the product line and establishes a complete matrix of analog inputs covering both isolated and non-isolated types, supporting system integration and expansion.

1.2.Application Areas

Industrial Automation

- PLC Analog Expansion for PLC Systems
- Distributed Control System (DCS)
- Factory Automation Monitoring System

Process Control

- Temperature, Pressure, and Flow Monitoring
- Level Measurement and Control
- Process Parameter Acquisition

Data Acquisition System

- Environmental Monitoring Stationa
- Energy Management System
- Data Collection for Scientific Research Experiments

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Building Automation

- HVAC System Monitoring
- Lighting Control System
- Security System Integration

1.3.Features and Functions

Signal Processing Characteristics

✧ Differential input configuration: Effectively mitigates common-mode interference, improving signal quality and system reliability.

✧ Multi-signal compatibility: Supports voltage signals (0 – 5 V/0 – 10 V) and current signals (0 – 20 mA/4 – 20 mA).

✧ Configurable filtering: Supports 1 – 16 levels of digital filtering, balancing response speed and stability.

✧ High-speed sampling: 40 Hz sampling frequency, meeting real-time control requirements.

Communication Features

✧ Standard Protocol: Supports the MODBUS RTU protocol to ensure compatibility with mainstream systems.

✧ Flexible Configuration: Supports a variety of baud rates (1,200–115,200 bps) and communication parameters.

✧ Reliable Transmission: RS-485 interface, supports long-distance communication (up to 1,200 meters).

✧ Multi-device networking: Supports bus-type network topologies with up to 247 devices.

Features

✧ Plug-and-play: Preconfigured with factory settings; ready to use as soon as power is turned on

✧ Easy configuration: Includes dedicated configuration software with a graphical interface for parameter settings

✧ Easy maintenance: LED status indicators provide intuitive fault diagnosis

✧ Flexible installation: Standard DIN rail mounting saves installation space

1.4.Product Model

Number of channels	Non-isolated models	Isolation Model
1 Channel	MA01-XHXX0100-V2	MA01-XHXX0100-V2P
2 Channel	MA01-XHXX0200-V2	MA01-XHXX0200-V2P
4 Channel	MA01-XHXX0400-V2	MA01-XHXX0400-V2P
6 Channel	MA01-XHXX0600-V2	MA01-XHXX0600-V2P
8 Channel	MA01-XHXX0800-V2	MA01-XHXX0800-V2P
10 Channel	MA01-XHXX0A00-V2	MA01-XHXX0A00-V2P

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12 Channel	MA01-XHXX0C00-V2	MA01-XHXX0C00-V2P

1.5.Selection Guide

Number of Channels Selection

- Determine based on the actual number of measurement points; we recommend allowing for a 10 – 20% expansion margin.

- Consider the balance between system integration and cost

Isolation Options

- Non-isolated: Lower cost; suitable for clean power environments

- Isolated Type: High safety rating; suitable for complex industrial environments; recommended as the first choice

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Chapter 2: Product Features

2.1.Core Features

Analog Data Acquisition: High-Precision Differential Analog Signal Acquisition

Signal Conversion: Supports voltage and current signal types

Data Communication: Data Transmission Based on the MODBUS RTU Protocol

Parameter Configuration: Flexible channel configuration and parameter settings

Status Indicator: The LED indicator displays the device's operating status.

2.2.Supported Signal Types

Voltage Signal

- 0-5V（Differential Input）
- 0-10V（Differential Input）

Current Signal

- 0-20mA（Differential Input）
- 4-20mA（Differential Input）

2.3.Communication Features

- Protocol Standards：MODBUS RTU
- Supported Function Codes：0x03, 0x04, 0x06, 0x10
- Device Address：0-247（Configurable）
- Baud rate：1200-115200 bps（Configurable）

2.4.Communication Performance Metrics

Communication Reliability

- Error Detection: CRC-16 Check

- Timeout Protection: Configurable timeout duration

- Automatic Retransmission: Supports an error retransmission mechanism

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Network Topology

- Maximum number of nodes: 247 devices

- Maximum communication distance: 1,200 meters (using a standard RS-485 cable)

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Chapter 3: Technical Specifications

3.1.Basic Specifications

Parameter Items	Technical Indicators
Power Supply Voltage	DC 8-28V
Operating Temperature	-40°C ~ +85°C
Storage Temperature	25 °C
Relative Humidity	5% - 95% RH

3.2.Analog Input Parameters

Parameter Items	Technical Indicators
Input Type	Differential Input
Number of Input Channels	1/2/4/6/8/10/12 Chnnel
Voltage Measurement Range	0-5V / 0-10V
Current Measurement Range	0-20mA / 4-20mA
Measurement Accuracy	3‰
Resolution	12 Bit
Sampling Frequency	40Hz
Input Impedance	260 Ω

3.3.Communication Parameters

Parameter Items	Technical Indicators
Communication Interfaces	RS485
Communication Protocols	MODBUS RTU
Baud rate	1200/2400/4800/9600/19200/38400/57600/115200 bps
Data bit	8Bit
Stop Bit	1Bit
Check digit	No/Parity/Even Parity
Device Address	0-247

3.4.Mechanical Specifications

Number of channels	Dimensions（±0.5mm）	Weight
1/2 channel	53.8*110.0 mm	72.5±2 g
4/6 channel	90.0*116.5 mm	118.5±2 g

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8/10/12 channel	90.0*116.5mm	162.0±2 g

Chapter 4: Getting Started

4.1.Unboxing and Inspection

- Check that the packaging is intact and undamaged
- Verify that the product model matches the order
- Check to see if the following items are all present

  ☐ Host Equipment × 1

  ☐ Terminal Block × 1 set

4.2.Quick Links

4.2.1.Power Connection

Connect a 8 – 28 V DC power supply to the power terminals.

Pay attention to the polarity of the power supply to prevent reverse connection.



Figure 1: Power Connection Diagram

4.2.2.Signal Wiring

Connect the analog signal to the AI terminals (AI+, AI-)

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Ensure that the signal type matches the device configuration

4.2.3.Communication Connections

Connect the RS485 communication cable to the corresponding terminals (A to A; B to B)

4.2.4. Power-On Test

Turn on the power and check the status of the SYS indicator light.

Under normal circumstances, the indicator light should remain on.



Figure 1: Power Indicator Light

4.2.5.Communications Testing

Search for devices using the host computer software

Confirm that communication is working properly



Image 1: Configuring Software Search

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Chapter 5: Installation and Wiring

5.1.Installation Environment Requirements

- Installation location: Avoid direct sunlight and keep away from heat sources
- Ventilation Requirements: Maintain good ventilation and heat dissipation.
- Vibration Limits: Avoid environments with strong vibrations
- Electromagnetic Environment: Keep away from sources of strong electromagnetic interference

5.2.Terminal Wiring Instructions

5.2.1.Power Terminals

Terminal Markings	Connection Instructions
VCC+	Power Supply Positive Terminal（DC 8-28V）
VCC-	Negative Terminal of the Power Supply（GND）

5.2.2.RS485 Communication Terminal

Terminal Markings	Connection Instructions
A+	RS485 A+
B-	RS485 B-
GND	Mailing Address (Optional)

5.2.3. Analog Input Terminals

	Terminal Markings	Connection Instructions
AI1+	Anode of Analog Input Channel 1
AI1-	Negative Terminal of Analog Input Channel 1
AI2+	Positive Terminal of Analog Input Channel 2
AI2-	Negative Terminal of Analog Input Channel 2
…	…

5.2.4.Wiring Precautions

- Disconnect the power before making any connections.
- Verify that the signal type matches the channel configuration
- Use cables of the appropriate size
- Ensure that all connections are secure to prevent loosening.

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Chapter 6: Configuration Settings

6.1.Jumper Cap Configuration

Each input channel has a corresponding jumper cap for selecting the signal type：

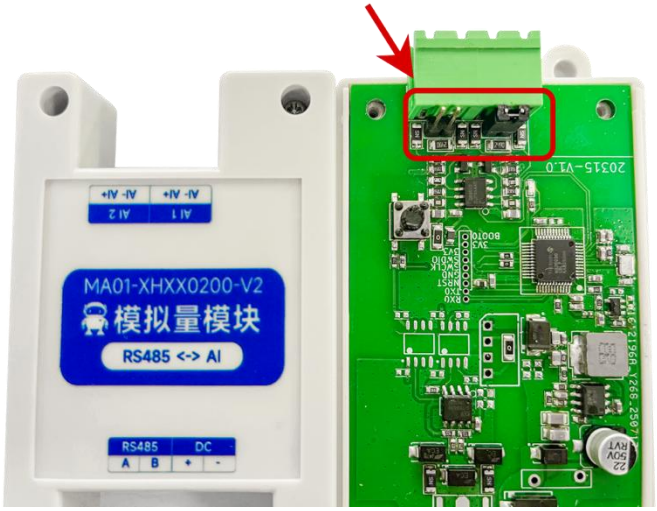


Image 1: Jumper Cap

Jumper Cap Status	Signal Type	Default Range
Hovering	Voltage Signal	0-5V
Short-circuit	Current Signal	0-20mA

6.2.Channel Configuration Instructions

6.2.1.Current Signal Configuration

Configuration value 0: 0 – 20 mA range

Configuration value 1: 4 – 20 mA range

Special Notes:

- When configured for 4 – 20 mA, a current below 3.5 mA is displayed as 0.

- Displays 4 mA within the 3.5 – 4 mA range

- Maximum current rating: 25 mA (exceeding this may damage the device)

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6.2.2.Voltage Signal Configuration

Configuration value 3: 0 – 5 V range

Configuration value 5: 0 – 10 V range

6.2.3.Filter Parameter Settings

Setting range: 1 – 16

Default value: 6

Description: The higher the value, the more stable the output and the slower the response.

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Chapter 7: List of Registers

Register Address (Decimal)	Register Address (Hexadecimal)	Number	Register Contents	Status	Data Range	Function Code
30000	0x0000	100	AI Quantity of Work (Raw Values) Corresponding to AI1–AI100	R	Raw analog signal value, 2-byte integer， 0x0000-0x0FFF	R 0x04
30100	0x0064	100	AI Quantity Integer Values Corresponding to AI1–AI100	R	Analog signal integer value, 2-byte integer， -32767-32768	R 0x04
30200	0x00C8	100	AI Floating-Point Values Corresponding to AI1–AI100	R	Analog signal floating-point value, 4-byte floating-point number	R 0x04
40400	0x0190	200	AI Quantity Calibration at High Points Corresponding to AI1–AI100	RW	Protected Registers High-Point Calibration for Analog Input Channels 4-byte floating-point number 0x0000/0x0001	R 0x03 W 0x10
40600	0x0600	200	AI Low-Point Calibration Corresponds to AI1–AI100	RW	Protected Registers Low-Point Calibration for Analog Output Channels 4-byte Floating-Point Numbers态	R 0x03 W 0x10
41200	0x04B0	1	AI Filter Parameters	RW	All AI channel filter parameters, Valid values: 1–16, default: 6	R 0x03 W 0x06,0x10
41100	0x044C	100	AI Sampling Range AI1–AI100	RW	Sampling range for all AI channels: Default value is 0 Voltage type: Valid values are 0 and 1. 0 indicates 0–10 V, 1 indicates 0–5 V Current type: Valid values are 0 and 1. 0 indicates 0–20 mA, 1 indicates 4–20 mA	R 0x03 W 0x06,0x10
42000	0x07D0	12	Module Model	R	See the model list	R 0x03

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42012	0x07DC	1	Module Firmware Version	R	The high byte represents the part of the version number before the decimal point, and the low byte represents the part after the decimal point. For example, in “v1.5,” the high byte is 0x01 and	R 0x03
42014	0x07DE	10	Module Name	RW	Up to 20 bytes	R 0x03 W 0x10
42024	0x07E8	1	Module Address	RW	Address range: 0–255 Default: 1 0 is the broadcast address	R 0x03 W 0x06, 0x10
42025	0x07E9	1	Restore All to Factory Settings	W	Write 0x5BB5; the module restarts	W 0x06, 0x10
42026	0x07EA	1	Device Restart	W	Write 0x5BB5; the module restarts	W 0x06, 0x10
42100	0x0834	1	Serial Port 1 Baud Rate Code	RW	See Appendix 1; the default value is 3.	R 0x03 W 0x06, 0x10
42102	0x0836	1	Serial Port 1 Parity Check	RW	0: No parity (default) 1: Odd parity 2: Even parity	R 0x03 W 0x06, 0x10
42103	0x0837	1	Stop Bit for Serial Port 1	RW	0, 1 digit (default), 1, 1.5 digits, 2, 2 digits	R 0x03 W 0x06, 0x10

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Chapter 8: Using the Host Computer Software

8.1.Software Download and Installation

Find the relevant configuration software on the download page for the product in question.



Figure 1: Configuration Tool

8.2.Device Connection

8.2.1.Search for Devices

Open the configuration software. First, you need to set the communication interface to the serial port.



Figure 2: Configuring Serial Port Parameters

Configure the serial port parameters to ensure that the device can communicate properly.

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Click the “Search for Devices” button, wait a moment, and the devices will be found.

8.2.2.Connection Confirmation

Verify that the device address is correct, then click to go to the configuration page.



Figure 3: Connection Confirmation



图片 2 搜索设备

8.2.3.Parameter Configuration

Communication Parameter Settings

- Equipment Address: 1-247
- Baud rate: 9600 (default)
- Data bits: 8
- Stop bit: 1

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- Check digit: None (default)



Figure 4: Communication Parameter Configuration

Channel Parameter Settings

- Signal Type: Voltage/Current
- Range selection: 0 – 5 V / 0 – 10 V / 0 – 20 mA / 4 – 20 mA
- Filter parameters: 1 – 16

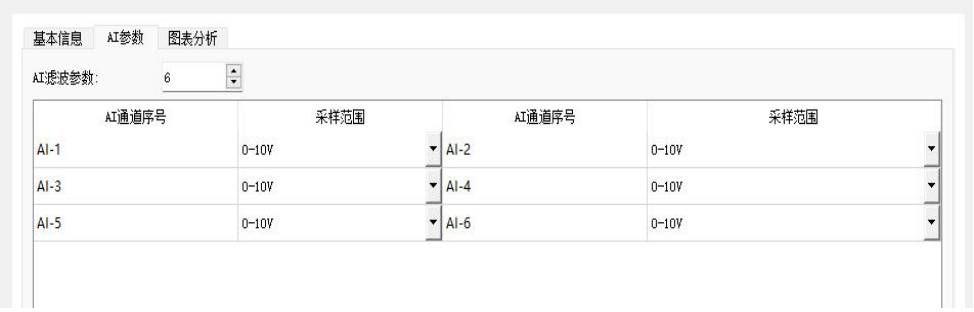


Figure 4: AI Channel Parameter Configuration

8.2.4.Data Monitoring

Real-time Display

Numeric Display: Real-time display of measurement values for each channel

Graph: Historical data displayed as a graph

Dashboard: Intuitive dashboard display

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8.2.5.Data Log

You can directly export monitoring data and generate reports within the configuration：



Figure 3: Data Export

8.3.Restart and Factory Reset

In the configuration software, the top control bar allows you to restart the device and restore it to factory settings.



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Chapter 9: Troubleshooting

9.1.Common Problems and Solutions

9.1.1.Communication Failure

Symptom: Unable to communicate with the device

- ☐ Check that the RS485 wiring is correct
- ☐ Check that the communication parameter settings match
- ☐ Verify the device address settings
- ☐ Check the terminating resistor configuration
- ☐ Verify that the power supply is functioning properly

Symptom: Unstable communication

- ☐ Check the length and quality of the communication cable
- ☐ Adjust the baud rate settings
- ☐ Check for electromagnetic interference in the environment
- ☐ Verify the ground connection

9.1.2.Measurement Errors

Symptom: Inaccurate measurements

- ☐ Check that the signal source is functioning properly
- ☐ Verify the signal type configuration
- ☐ Check the jumper cap settings
- ☐ Calibrate the measuring instrument
- ☐ Check that the connections are secure

Symptom: Fluctuating Measurement Values

- ☐ Adjust filter parameters
- ☐ Check signal source stability
- ☐ Troubleshoot electromagnetic interference
- ☐ Check ground connections

9.1.3.Power Failure

Symptom: The device will not power on

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- ☐ Check the power supply voltage range (8 – 28 V DC)
- ☐ Verify the power supply polarity connection
- ☐ Check the power supply wiring connections
- ☐ Measure the power supply output voltage

Symptom: The device restarts automatically

- ☐ Check power supply stability
- ☐ Verify load current
- ☐ Check operating temperature
- ☐ Troubleshoot power supply interference

9.2.Indicator Light Status Diagnosis

Lighting Status	Equipment Status	Procedure
Always-On	Normal Operation	No action required
Flashing (60 ms cycle）	Communicating...	This is normal
Off	Power Failure	Check the power connection

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9.3.Restart and Factory Reset

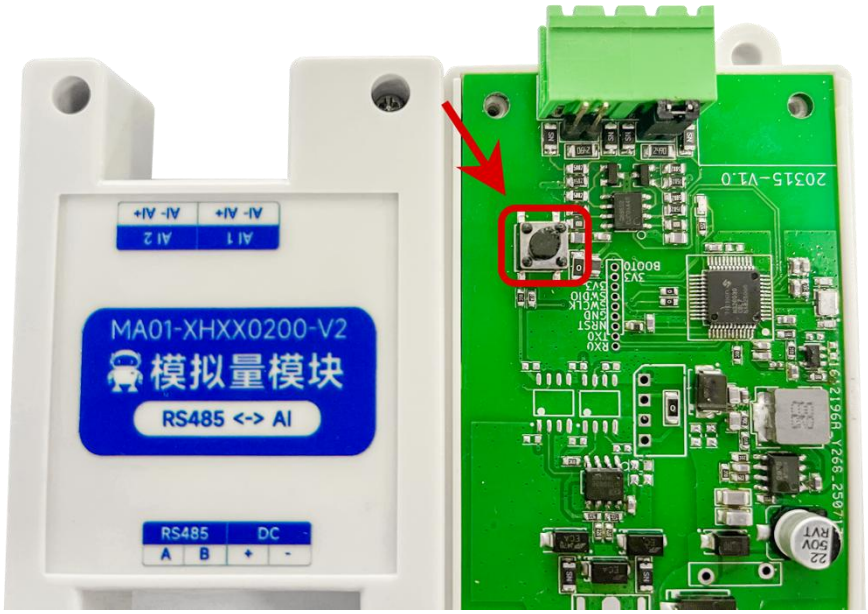


Image 3: Restart and Factory Reset Buttons

If the device is completely unresponsive, you can try resetting it using the hardware reset and factory reset buttons.

- ✧ Short press (50 ms – 1.5 s): Restart the device
- ✧ Long press (5 – 10 seconds): Restore factory settings
- ✧ Timeout Protection: Keypresses are invalid if they exceed 10 seconds

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Chapter 10: Safety Guidelines

10.1.Important Information Before Use

☐ Please read this manual carefully to understand the product’s performance and how to use it.

☐ Verify that the product model matches your application requirements.

☐ Check that the working environment meets the technical requirements.

☐ Prepare the necessary tools and test instruments.

10.2.Installation Safety

☐ Work with Power Off: The power must be turned off before performing any wiring operations.

☐ Anti-Static Measures: Take precautions against static electricity during operation.

☐ Tool Inspection: Use approved electrical tools.

☐ Qualified Personnel: Installation should be performed by qualified technical personnel.

10.3.Operational Safety

☐ Power Supply Requirements: Strictly adhere to the power supply specifications (DC 8 - 28 V)

☐ Polarity Protection: Pay attention to the power supply polarity; although reverse-polarity protection is provided, caution is still required

☐ Overload Protection: Do not exceed the device’s rated parameters

☐ Environmental Requirements: Ensure that the operating environment meets the technical specifications

10. 4. Maintaining Safety

☐ Regular Inspections: Periodically check that all connections are secure.

☐ Cleaning and Maintenance: Clean the equipment housing with a clean, dry cloth.

☐ Avoid Liquids: Prevent liquids from entering the equipment.

☐ Professional Repair: Contact a qualified technician if the equipment malfunctions.

10.5.Emergency Response

If you notice any unusual behavior, please immediately: 1. Disconnect the power supply; 2. Stop operation; 3. Contact technical support; 4. Record the symptoms of the malfunction.

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10.6.Environmental Requirements

☐ Proper Disposal: When the equipment is scrapped, please dispose of it in accordance with environmental protection requirements.

☐ Material Recycling: Metal materials can be recycled.

☐ Prevent Pollution: Do not discard electronic components carelessly.

Important Warning:

- Do not use in flammable or explosive environments

- There are no user-serviceable parts inside the device; do not disassemble it yourself

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Chapter 11: Maintenance and Care

11.1.Routine Maintenance

11.1.1.Visual Inspection

Frequency of inspections: Once a month

Inspection Items:

☐ Check for damage or deformation to the housing

☐ Check that the indicator lights are functioning properly

☐ Check that the terminal connections are secure

☐ Are the labels clear

11.1.2.Functional Testing

Inspection Frequency: Once per quarter

Inspection Items:

☐ Are communication functions working properly

☐ Does the measurement accuracy meet requirements

☐ Are all channels functioning properly

☐ Are the parameter settings maintained

11.2.Regular Maintenance

11.2.1.Semi-Annual Maintenance

☐ Comprehensive functional testing

☐ Wiring tightness inspection

☐ Communication performance testing

☐ Parameter backup

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11.2.2.Annual Maintenance

☐ Accuracy Check

☐ Deep Cleaning

☐ Firmware Update Check

☐ Maintenance Record Archiving

11.3.Cleaning and Maintenance

11.3.1. Cleaning Requirements

Cleaning Frequency: Clean regularly based on environmental conditions

Cleaning Tools: A clean, dry cloth or an antistatic cloth

11.3.2.Cleaning Steps

A. Disconnect the power supply

B. Clean the housing: Wipe the surface of the housing with a dry cloth

C. Clean the terminals: Remove dust and dirt from the terminals

D. Check the connections: After cleaning, check that all connections are secure

11.3.3.Storage Requirements

If the equipment will not be used for an extended period, please store it properly:

Temperature range: 15‐25°C

Humidity requirements: 30% to 45% RH

Packaging requirements: Store in the original packaging

Environmental requirements: Dry, well-ventilated, and free of corrosive gases

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Important Notice

• Yibai Te reserves the right to make final interpretations and modifications to all content in this manual.

• Due to ongoing improvements to the product’s hardware and software, this manual is subject to change without prior notice; the latest version of the manual shall prevail.

• Users of this product should visit the official website to stay informed about product updates so they can promptly access the latest information regarding this product.

Revision History

Version	Revision Date	Revision Notes	Maintainer
1.0	2025-9-16	Initial Version	Hugh
1.1	2026.2.6	New Register Addresses	LT

About Us

Sales Hotline：4000-330-990　　Technical Support：support@cdebyte.com

Official Website：www.ebyte.com

Company Address: Building B5, No. 199, West District Avenue, High-Tech West District, Chengdu, Sichuan Province

成都亿佰特电子科技有限公司
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