Fafeicy MH0348-DIN

Fafeicy MH0348-DIN Temperature Humidity Controller User Manual

Model: MH0348-DIN

1. Product Overview

The Fafeicy MH0348-DIN is a digital temperature and humidity controller designed for precise environmental monitoring. It features a clear LED display for real-time readings and offers reliable performance in various settings. This controller supports temperature and humidity output, and optional RS485 communication functionality.

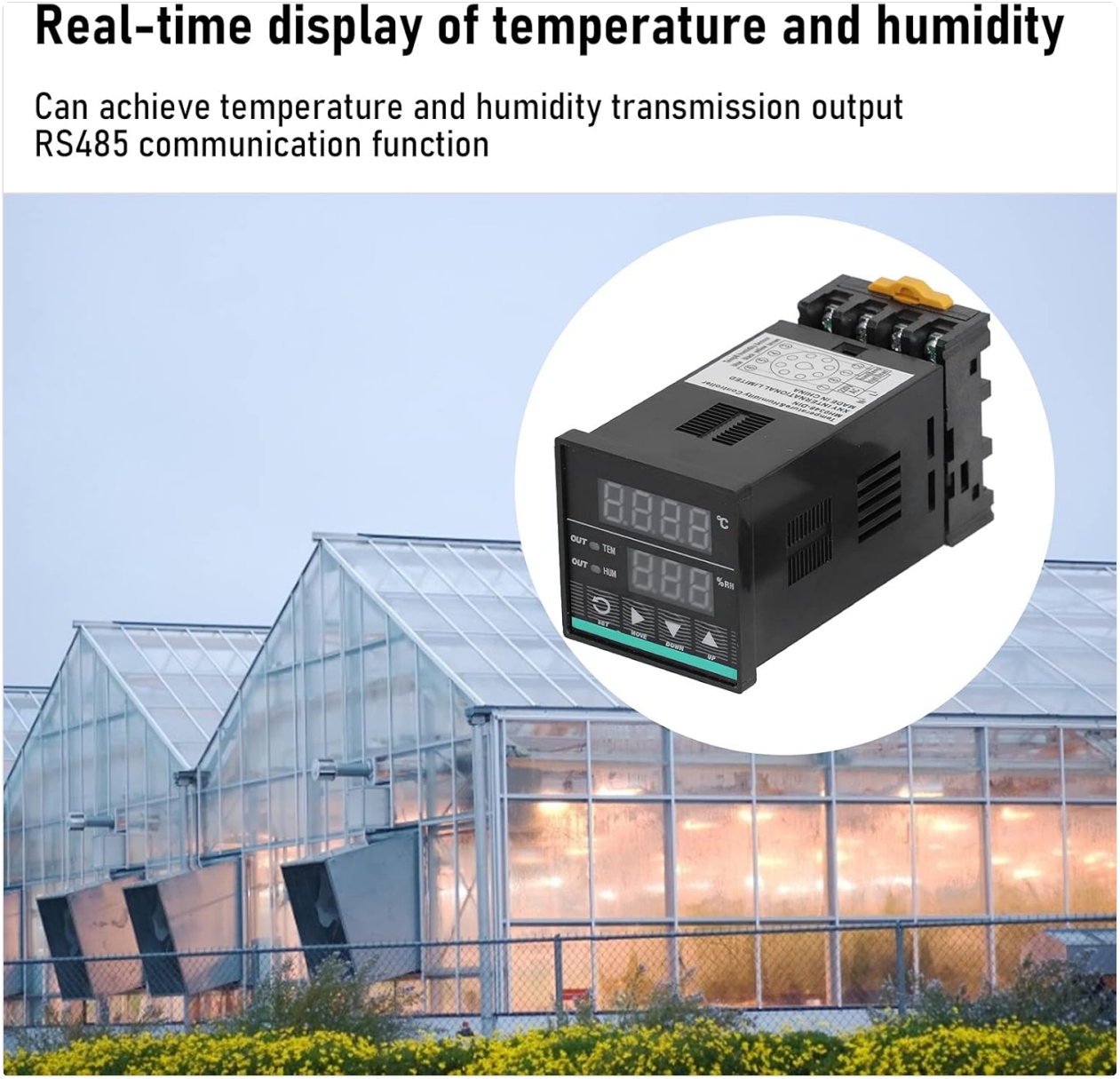

Figure 1: Fafeicy MH0348-DIN Temperature Humidity Controller front view. The controller features a clear LED display for temperature and humidity readings, along with control buttons.

Key Features:

- **Clear LED Display:** High-contrast LED display for easy readability of temperature and humidity values.
- **Real-time Monitoring:** Provides continuous display of current temperature and humidity.
- **High-Performance Sensor:** Utilizes an imported, high-precision, anti-corrosion digital temperature and humidity sensor.
- **Extended Sensor Distance:** Supports a 4-wire sensor connection, allowing for a distance of up to 30 meters between the sensor and the instrument.
- **Compact Design:** Small and lightweight for convenient installation and use.

2. Package Contents

Verify that all items listed below are included in your package:

- 1 x MH0348-DIN Temperature Humidity Controller
- 1 x Temperature and Humidity Sensor Module
- 1 x Connection Cable (4-wire)

- 1 x Cable Plug
- 1 x Mounting Frame
- 1 x English User Manual (this document)

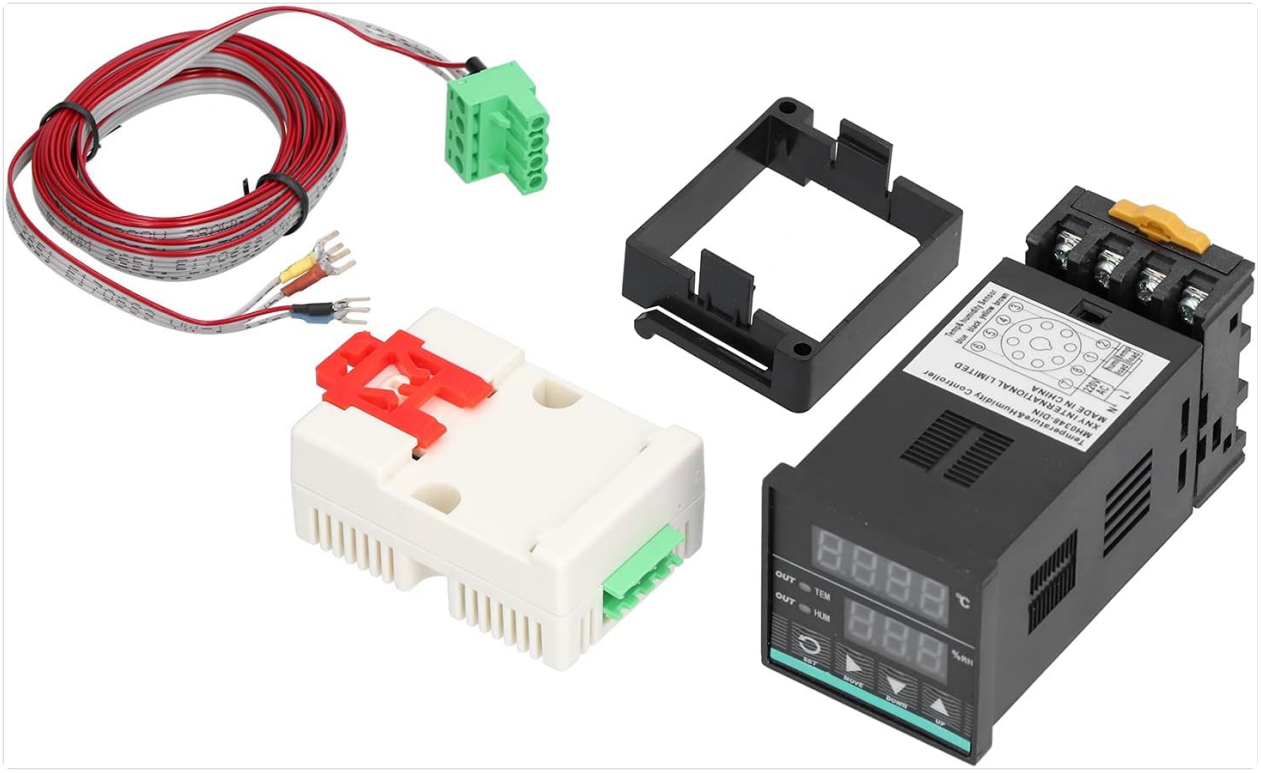

Figure 2: Complete kit contents. This image displays the complete kit, including the controller, sensor module, connection cable, cable plug, and mounting frame.

3. Setup and Installation

3.1 Mounting the Controller

Use the provided mounting frame to secure the controller in your desired location. Ensure the location allows for proper ventilation and easy access to the display and buttons.

3.2 Sensor Connection

Connect the external temperature and humidity sensor module to the controller using the supplied 4-wire cable. Ensure the connections are secure and follow any labeling on the controller and sensor module for correct wiring. The sensor can be placed up to 30 meters away from the main unit.

Figure 3: Controller with sensor module. The main controller unit shown alongside its external temperature and humidity sensor module, which connects via a 4-wire cable.

3.3 Power Connection

Connect the controller to an AC85-265V, 50HZ power source using the provided cable and plug. Ensure the power supply matches the controller's specifications. **Caution: Do not use the device outside the specified voltage range to prevent damage.**

3.4 Initial Power-up

Once all connections are secure, apply power to the controller. The LED display should illuminate, showing the current temperature and humidity readings.

4. Operating Instructions

4.1 Display Overview

The controller features two LED displays: one for temperature (labeled 'TEM' or '°C') and one for humidity (labeled 'HUM' or '%RH'). These displays show real-time environmental conditions.

Figure 4: Close-up of display and buttons. Detailed view of the digital display showing temperature and humidity, with 'SET', 'MOVE', 'DOWN', and 'UP' buttons for parameter adjustment.

4.2 Button Functions

- **SET Button:** Used to enter the parameter setting mode and confirm selections.
- **MOVE Button:** Used to navigate between different parameters during setting.
- **DOWN Button:** Decreases the value of a selected parameter.
- **UP Button:** Increases the value of a selected parameter.

4.3 Setting Parameters

To adjust temperature or humidity set points, press the **SET** button to enter the setting mode. Use the **MOVE** button to select the desired parameter (e.g., temperature set point, humidity set point). Use the **DOWN** and **UP** buttons to change the value. Press **SET** again to confirm and save the changes, or wait for the display to time out and return to monitoring mode.

5. Maintenance

To ensure optimal performance and longevity of your MH0348-DIN controller, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the controller's surface and display with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Sensor Care:** Keep the sensor module clean and free from dust or debris. Ensure it is not exposed to extreme physical impact or corrosive substances.
- **Environmental Conditions:** Operate the controller within its specified environmental range (-10°C to 50°C, 45-85%RH) to prevent damage.
- **Connection Check:** Periodically inspect all wiring connections for looseness or damage.

6. Troubleshooting

If you encounter issues with your MH0348-DIN controller, refer to the following common troubleshooting steps:

- **No Display/Power:**
  - Check the power connection and ensure the power supply is within the AC85-265V range.
  - Verify that the power outlet is functional.
- **Incorrect Readings:**
  - Ensure the sensor module is correctly connected to the controller.
  - Check if the sensor is clean and free from obstructions.
  - Verify that the sensor cable is not damaged.
- **Controller Not Responding to Button Presses:**
  - Ensure the controller is powered on.
  - If the issue persists, power cycle the device (turn off and on again).
- **Output Not Activating:**
  - Check your set points for temperature and humidity to ensure they are configured correctly for your desired operation.
  - Verify the wiring for the control output.

If these steps do not resolve the issue, please contact customer support for further assistance.

7. Specifications

Parameter	Specification
Model	MH0348-DIN
Power Supply	AC85-265V, 50HZ
Product Power Consumption	≤2W
Resolution	0.1
Setting Temperature Range	-40°C to 120°C
Setting Humidity Range	0-99.9%RH
Basic Error (Temperature)	≤±0.5%FS

Parameter	Specification
Basic Error (Humidity)	≤±4.5%FS
Display Device	LED (0.56 inch)
Control Output	AC 250V 3A (resistive load)
Operating Environment	-10℃ to 50℃, 45-85%RH
Brand	Fafeicy
Manufacturer	Fafeicy

8. Warranty and Support

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. You may also visit the official Fafeicy website for additional resources and contact details.