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ETURBEV CHB702-011-0112016

ETURBEV CHB702 Series Temperature Controller

Model: CHB702-011-0112016

Introduction Safety Information Product Overview Setup Operating Instructions Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the ETURBEV CHB702 Series Temperature Controller. Please read this manual thoroughly before using the device to ensure safe and efficient operation. Keep this manual for future reference.

2. Safety Information

WARNING: Electrical shock hazard. Always disconnect power before installation or servicing. Only qualified personnel should perform electrical connections.

- Ensure the power supply voltage matches the device's requirements (180V-240V 50Hz).
- Do not operate the device in environments exceeding the specified operating conditions (0-50°C, 35%-85%RH).
- Avoid exposing the controller to moisture or corrosive gases.
- Securely fasten all wiring connections to prevent loose contacts.

3. Product Overview

The ETURBEV CHB702 Series is a precise temperature controller designed for various industrial and commercial applications. It features a clear display and intuitive controls for setting and monitoring temperature.



Figure 1: Detailed view of the ETURBEV CHB702 Series Temperature Controller's specification label. This label provides key operational parameters and model identification.

Key information from the product label:

Parameter	Value
Model	CHB702-011-0112013 (*Note: Specific model in this manual is CHB702-011-0112016, but label shows a similar variant*)
Graduation Number	K
Output	Logic Level
Measurement Range	0~400°C
Accuracy Level	0.5
Instrument Number	11605008397
Working Voltage	180V-240V 50Hz

Parameter	Value
Operating Environment	0-50°C, 35%-85%RH
Date of Manufacture	201605

4. Setup and Installation

Before installation, ensure the power supply is disconnected. Mount the temperature controller in a suitable panel cutout, ensuring adequate ventilation and protection from environmental factors.

4.1 Wiring

Connect the power supply to the designated terminals. The device requires a working voltage of 180V-240V AC, 50Hz. Connect the temperature sensor (K-type thermocouple, as indicated by 'K' graduation number) to the input terminals. Connect the control output (logic level) to the appropriate heating or cooling element control circuit.

- Refer to the wiring diagram provided with your specific unit for exact terminal assignments.
- Ensure all connections are secure and insulated.
- Verify correct polarity for sensors and output connections.

5. Operating Instructions

5.1 Power On

After completing all wiring, apply power to the controller. The display will illuminate, showing the current process value (PV) and set point (SV).

5.2 Setting the Temperature

1. Press the **SET** button to enter the set point adjustment mode.
2. Use the **UP** and **DOWN** arrow buttons to adjust the desired temperature set point.
3. Press **SET** again to confirm the new set point and exit the adjustment mode.

5.3 Parameter Configuration

Advanced parameters such as PID settings, alarm thresholds, and input type can be configured through the menu system. Refer to the detailed parameter list in the full technical manual for specific instructions on accessing and modifying these settings.

6. Maintenance

6.1 Cleaning

Regularly clean the front panel of the controller with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device.

6.2 Inspection

Periodically inspect wiring connections for tightness and signs of wear or damage. Check the operating environment to ensure it remains within the specified temperature and humidity ranges.

7. Troubleshooting

Problem	Possible Cause	Solution
No display	No power, incorrect wiring, fuse blown	Check power supply, verify wiring, replace fuse if necessary
Temperature reading inaccurate	Sensor faulty, incorrect sensor type, poor sensor connection	Check sensor, ensure K-type thermocouple is used, secure sensor wiring
Output not activating	Set point not reached, output wiring issue, parameter misconfiguration	Verify set point, check output wiring, review output parameters

For issues not listed here, please contact customer support.

8. Specifications

Parameter	Value
Model (Current Product)	CHB702-011-0112016
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces
Manufacturer	ETURBEV
Assembly Required	No
Number of Pieces	1
Input Type	K-type Thermocouple
Measurement Range	0~400°C
Accuracy	0.5%
Working Voltage	180V-240V AC, 50Hz
Operating Environment	0-50°C, 35%-85%RH (non-condensing)

9. Warranty and Support

ETURBEV products are manufactured to high-quality standards. For warranty information or technical support, please refer to the documentation included with your purchase or contact your retailer. Please have your model number (CHB702-011-0112016) and purchase date available when contacting support.

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