ELIWELL RCS3UDTX20700

ELIWELL EWRC 500 NT HACCP Electronic Controller User Manual

Model: RCS3UDTX20700

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the ELIWELL EWRC 500 NT HACCP Electronic Controller, Model RCS3UDTX20700. This device is designed for precise temperature regulation in industrial and commercial applications, particularly those requiring HACCP compliance. Please read this manual thoroughly before installation and operation to ensure safe and efficient use.

2. Safety Information

Always observe the following safety precautions:

- Installation and maintenance must be performed by qualified personnel only.
- Disconnect power before performing any wiring or maintenance.
- Ensure the power supply matches the controller's specifications (230V).
- Protect the device from water, moisture, and extreme temperatures.
- Do not open the casing unless specifically instructed to do so by the manufacturer.
- Follow all local electrical codes and regulations.

3. Product Overview

The ELIWELL EWRC 500 NT is an advanced electronic controller featuring a digital display and intuitive button interface for easy parameter adjustment and monitoring. It is specifically designed for applications requiring HACCP protocol adherence.

Figure 3.1: Front view of the ELIWELL EWRC 500 NT HACCP Electronic Controller.

This image displays the front panel of the ELIWELL EWRC 500 NT HACCP Electronic Controller. The device is housed in a light grey, rectangular enclosure. The front panel features a dark grey rectangular display area with a digital readout, likely showing temperature or operational status. Below the display, the word "COLDFACE" is visible. To the right of the display, there are several control buttons arranged vertically. From top to bottom, these include: an "ESC" button with a snowflake icon, a "SET" button, a button with a light bulb icon, an "AUX" button with a down arrow, and an orange circular power button with a vertical line and circle icon. Above the "AUX" button, there is an up arrow button with a fan icon. The "eliwell" brand logo is visible in the upper left corner of the dark grey display area. The overall design suggests a robust and functional industrial control unit.

4. Installation

4.1 Mounting

The controller is designed for panel mounting with dimensions of 213x318mm. Ensure adequate ventilation around the unit to prevent overheating. Secure the controller using the provided mounting clips or screws, ensuring a snug fit to prevent vibration.

4.2 Wiring

All wiring must comply with local and national electrical codes. Use appropriate gauge wires for the power supply and load connections. Refer to the wiring diagram below for correct terminal connections.
Note: A detailed wiring diagram is typically provided on the device itself or in a separate technical sheet. For specific terminal assignments, consult the product's technical documentation.

General Wiring Guidelines:

- Connect the 230V AC power supply to the designated power input terminals.
- Connect temperature probes to the sensor input terminals.
- Connect controlled loads (e.g., compressors, fans, heaters) to the relay output terminals.
- Ensure all connections are secure and insulated.

5. Setup

After successful installation and wiring, proceed with the initial setup:

1. **Power On:** Apply power to the controller. The display will illuminate, and the unit will perform a self-test.
2. **Initial Display:** The display will typically show the current temperature reading from the primary probe.
3. **Accessing Parameters:** Press and hold the **SET** button for a few seconds to enter the parameter configuration menu.
4. **Navigation:** Use the **Up** and **Down** arrow buttons to scroll through parameters.
5. **Adjusting Values:** Press **SET** to select a parameter, use **Up**/**Down** to change its value, then press **SET** again to confirm.
6. **Exiting Menu:** Press the **ESC** button to exit the parameter menu and return to the main display.

6. Operating Instructions

6.1 Basic Operation

Once configured, the controller operates automatically based on the set parameters. The main display continuously shows the measured temperature.

- **Viewing Setpoint:** Briefly press the **SET** button to view the current temperature setpoint. Press **ESC** to return to the main display.
- **Manual Defrost (if applicable):** Press and hold the **Defrost** button (often combined with **ESC** or a dedicated button with a snowflake icon) to initiate a manual defrost cycle.
- **Auxiliary Function:** The **AUX** button may activate an auxiliary output or function, depending on configuration. Refer to parameter settings for details.

6.2 Parameter Configuration (Advanced)

The EWRC 500 NT offers a wide range of configurable parameters to fine-tune its operation. These include setpoints, differentials, defrost cycles, alarm thresholds, and probe calibration. Access these parameters as described in the "Setup" section.

Consult the detailed parameter list in the full technical manual for specific codes and their functions. Incorrect parameter settings can lead to improper operation or damage.

7. Maintenance

Regular maintenance ensures the longevity and accuracy of your controller.

- **Cleaning:** Clean the front panel with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspections:** Periodically inspect wiring connections for looseness or corrosion.
- **Probe Check:** Verify that temperature probes are securely connected and free from damage.
- **Software Updates:** Check the manufacturer's website for any available firmware updates. (Requires specialized tools and knowledge).

All internal maintenance or repairs should only be performed by authorized service personnel.

8. Troubleshooting

This section provides solutions to common issues. For problems not listed here, contact technical support.

Problem	Possible Cause	Solution
Display is blank	No power supply; Incorrect wiring; Blown fuse.	Check power connections; Verify wiring against diagram; Replace fuse if necessary.
Temperature reading inaccurate	Faulty probe; Incorrect probe type selected; Probe not properly installed.	Check probe connection; Verify probe type in parameters; Reinstall probe.
Controller not switching load	Incorrect setpoint/differential; Relay fault; Wiring issue to load.	Adjust parameters; Check load wiring; Contact service if relay is faulty.
Error code displayed	Specific system fault (e.g., probe error, memory error).	Refer to the full technical manual for specific error code meanings and remedies.

9. Specifications

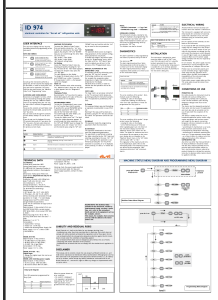
Feature	Detail
Model	EWRC 500 NT HACCP (RCS3UDTX20700)
Brand	ELIWELL
Power Supply	230 V AC
Installation Dimensions	213 x 318 mm (Panel Mount)
Application	Electronic Temperature Regulation, HACCP Compliant
Manufacturer Reference	4251759903357

10. Warranty and Support

For warranty information, please refer to the terms and conditions provided at the time of purchase or contact your

distributor. Technical support can be obtained through the manufacturer or authorized service centers.
Manufacturer: Gastroteileshop
ASIN: B07Z5LXQWH

Related Documents - RCS3UDTX20700

	Eliwell EWRC 300/500 NT Quick Start Guide A quick start guide for the Eliwell EWRC 300/500 NT series controllers, designed for static and ventilated cold rooms. This document provides essential information on installation, navigation, electrical connections, and user interface.
	Eliwell Energy ST 500 Electronic Controllers for Air-Conditioning - User Manual User manual for the Eliwell Energy ST 500, a range of electronic controllers designed for centralized air-conditioning units. Details features, configuration, operation, and technical specifications for HVAC systems.
	Eliwell ICPlus 915 : Contrôleur Électronique de Température Manuel technique pour le contrôleur électronique Eliwell ICPlus 915. Découvrez ses caractéristiques, spécifications, options de configuration et guides d'installation pour une régulation de température précise.
	Eliwell Dongle BTLE 5.0 AIR: HACCP Wireless Module User Manual User manual for the Eliwell Dongle BTLE 5.0 AIR, a wireless module for HACCP monitoring. Covers safety, technical data, installation, pairing, and troubleshooting.
	Eliwell ID 974 Electronic Controllers for Forced Air Refrigeration Units - User Manual This document provides comprehensive information on the Eliwell ID 974 electronic controller, including user interface, programming, diagnostics, installation, technical data, and wiring diagrams for forced air refrigeration units.


ID 971
electronic controllers for refrigerating units

USER INTERFACE

KEYS AND LEDS

MACHINE STATUS MENU

PROGRAMMING MENU

Displaying Probes

PARAMETERS

MANUAL ACTIVATION OF THE DEFROSTING CYCLE

COPY CARD

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ALARMS

[Eliwell ID 971 Electronic Controllers for Refrigerating Units Manual]

User manual for the Eliwell ID 971 electronic controller for refrigerating units, covering user interface, machine status, programming, manual defrost activation, copy card functionality, LED indicators, keyboard locking, diagnostics, installation, electrical wiring, conditions of use, liability, technical data, and wiring diagrams.