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Xiltek XR02CX-5N0C1

Dixell XR02CX-5N0C1 Digital Thermostat Controller Instruction Manual

Model: XR02CX-5N0C1

1. INTRODUCTION

The Dixell XR02CX-5N0C1 is a compact digital controller designed for refrigeration applications at normal temperatures. This device features off-cycle defrost capabilities and provides a relay output to manage the compressor. It includes one NTC probe input and one digital input, making it suitable for various appliances such as fridges, freezers, and heating units. The instrument is fully configurable through its parameters, which can be easily programmed via the keyboard or using a HOTKEY.



Figure 1: Front view of the Dixell XR02CX-5N0C1 controller, showing the digital display and control buttons.

2. SAFETY PRECAUTIONS

- **Verify Supply Voltage:** Always check that the supply voltage is correct before connecting the instrument to power.
- **Environmental Conditions:** Do not expose the controller to water or excessive moisture. Use the device only within its specified operating limits, avoiding sudden temperature changes with high atmospheric humidity to prevent condensation.
- **Maintenance Disconnection:** Disconnect all electrical connections before performing any type of maintenance on the unit.
- **Probe Placement:** Ensure the temperature probe is installed in a location inaccessible to end-users.
- **Do Not Open:** The instrument casing must not be opened by unauthorized personnel.
- **Relay Current Limits:** Consider the maximum current that can be applied to each relay as specified in the Technical Data section.

- **Wiring Separation:** Ensure that wires for probes, loads, and the power supply are separated and sufficiently far from each other, avoiding crossing or intertwining.

3. SETUP AND INSTALLATION

3.1 Mounting

The XR02CX-5N0C1 is designed for panel mounting. The mounting measurements are 71 mm x 29mm, with a built-in depth of 56mm. Ensure adequate ventilation around the unit.

3.2 Electrical Connections

Refer to the wiring diagram below for proper electrical connections. All connections must be performed by qualified personnel and in accordance with local electrical codes.

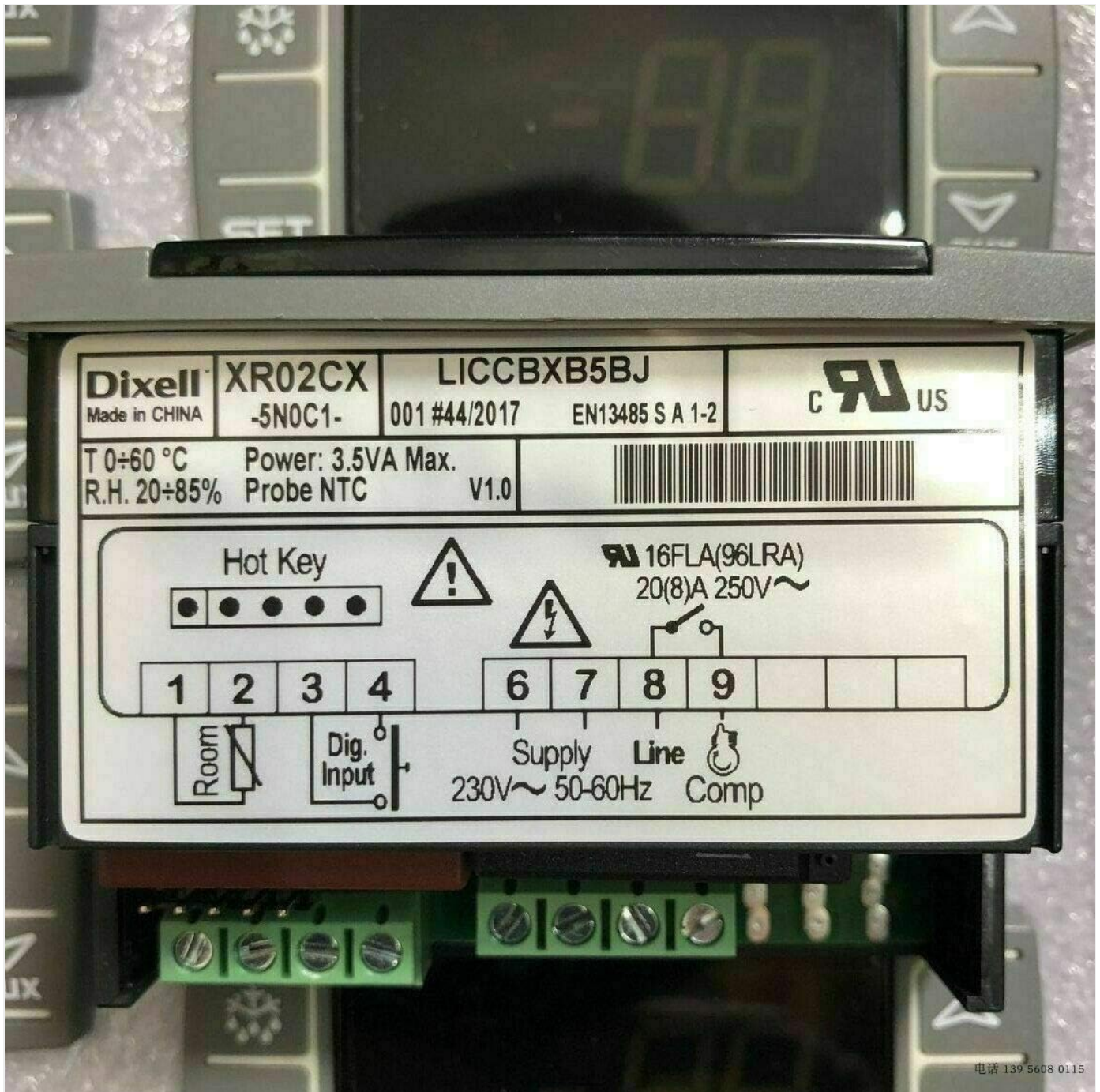


Figure 2: Rear view with wiring diagram. Terminals 1-2 are for the Room NTC probe, 3-4 for Digital Input, 6-7 for Supply (230V~ 50-60Hz), 8 for Line, and 9 for Compressor.

The unit operates on a 230V, 50-60Hz AC supply. It features one NTC probe input (probes are not included and must be

purchased separately) and one digital input. The relay output for the compressor is a NO-20A(8) type.

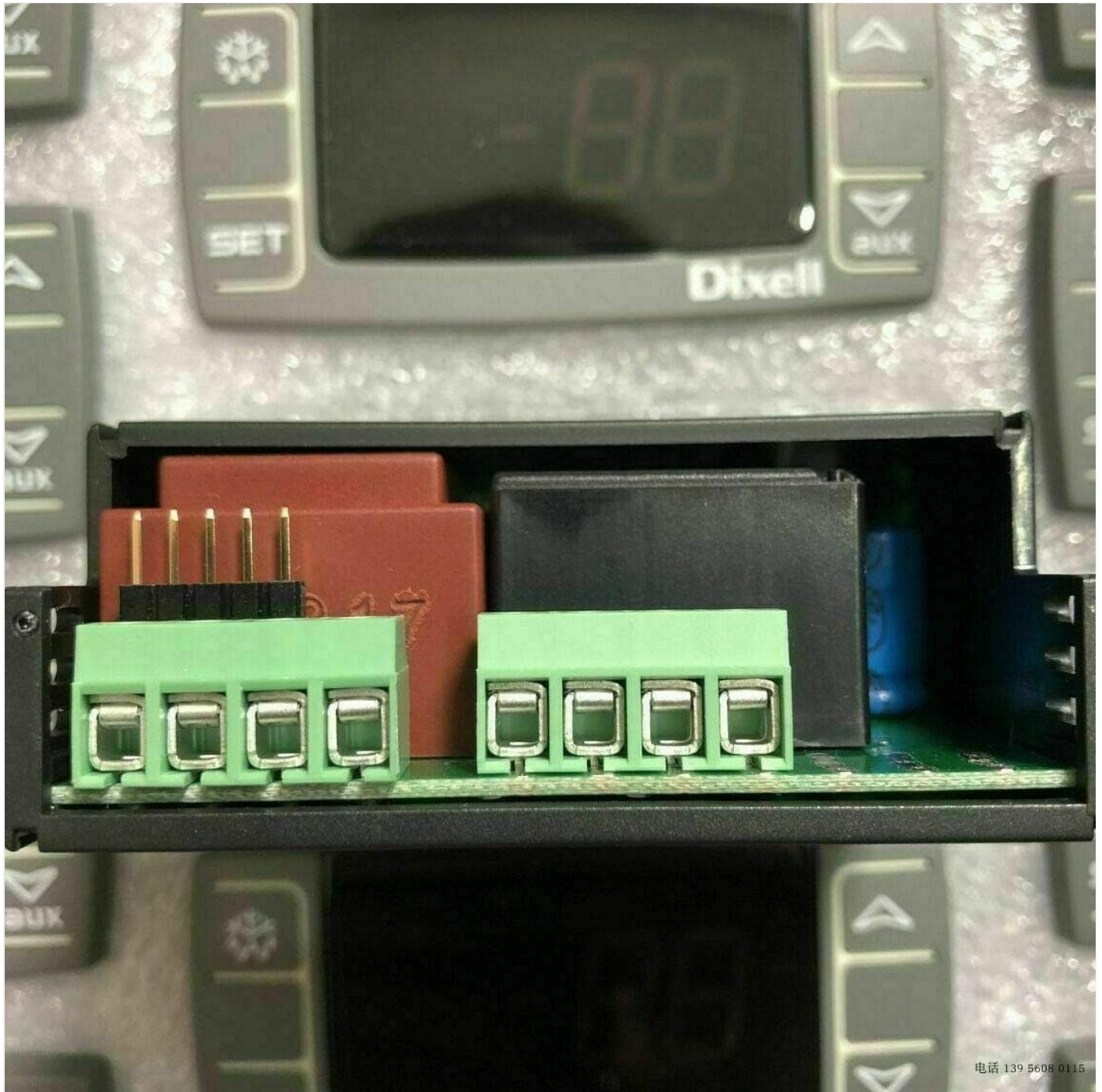


Figure 3: Internal view of the terminal blocks, illustrating where wires are connected.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

The Dixell XR02CX-5N0C1 features a 2½ digit display for temperature readings and status indicators. All operational parameters can be configured through the front panel keyboard. For quick and efficient programming, a HOTKEY can be utilized.

4.2 Defrost Function

This controller includes an off-cycle defrost function, which is managed by time control. Specific parameters related to defrost cycles can be adjusted to suit the application's requirements.

4.3 Temperature Measurement

The instrument measures temperatures within a range of -40°C to +110°C using an NTC probe.

5. MAINTENANCE

To ensure the longevity and proper functioning of your Dixell XR02CX-5N0C1 controller, follow these maintenance guidelines:

- Always disconnect power before cleaning or performing any maintenance.
- Clean the display and casing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Regularly inspect wiring connections for any signs of wear or damage.
- Do not attempt to open or repair the instrument yourself. Internal components are not user-serviceable.

6. TROUBLESHOOTING

If the instrument experiences a failure or faulty operation, it is recommended to send the unit back to the distributor or directly to Dixell S.r.l. for inspection and repair. Provide a detailed description of the fault to assist with diagnosis. Do not attempt to repair the unit yourself, as this may void the warranty and could lead to further damage or safety hazards.

7. TECHNICAL SPECIFICATIONS

Producer	DIXELL
Model Type	XR02CX-5N0C1
Mounting Measurements	71mm x 29mm
Built-in Depth	56mm
Supply Voltage	230V 50-60Hz AC
Probe Type	NTC (probes not included)
Number of Relay Outputs	1
Relay Output 1	NO-20A(8)
Input	1 NTC, 1 Digital Input
Kind of Protection	IP54
Version	Defrosting Function / Time Control
Measuring Range	-40°C up to +110°C
Display	2½ Digit
UPC	791974135187
ASIN	B092M6MTH8

8. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided at the time of purchase or contact your authorized Dixell distributor. In case of technical issues or for support, please contact your distributor or Dixell S.r.l.

directly. When contacting support, please have your model number (XR02CX-5N0C1) and a detailed description of the issue ready.

