

Xiltek XR02CX

Dixell XR02CX Digital Temperature Control Panel Thermostat Instruction Manual

Model: XR02CX

Brand: Xiltek

1. INTRODUCTION AND OVERVIEW

The Dixell XR02CX is a highly reliable digital temperature control panel thermostat, specifically designed for precise temperature management in various refrigeration units. Manufactured by Dixell and distributed by Xiltek, this device ensures accurate temperature sensing and efficient control of cooling cycles, helping to maintain optimal and food-safe holding temperatures while improving energy efficiency.

This manual provides essential information for the proper installation, operation, and maintenance of your XR02CX thermostat. Please read it thoroughly before use to ensure safe and effective performance.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent personal injury or damage to the unit:

- **Electrical Safety:** Installation and maintenance should only be performed by qualified personnel. Disconnect power before any wiring or service. Ensure proper grounding.
- **Voltage Compatibility:** Verify that the power supply voltage matches the thermostat's requirements (230 Volts, as per specifications). Incorrect voltage can damage the unit.
- **Environmental Conditions:** Do not expose the unit to excessive moisture, dust, or extreme temperatures outside its operating range.
- **Probe Handling:** Handle temperature sensor probes carefully to avoid damage. Do not bend or crimp the probe cables excessively.
- **Intended Use:** This device is intended for temperature control in refrigeration systems. Do not use it for purposes other than its specified function.

3. PRODUCT FEATURES

- Digital temperature display with clear red LED digits.
- Accurate temperature sensing with two included sensor probes.

- User-friendly button control interface for easy setting adjustments.
- Designed for compatibility with various refrigeration brands, including Xiltek, Atosa, Norlake, and Migali.
- Compact and rectangular design for easy integration into control panels.
- Optimized for maintaining consistent and food-safe temperatures.

4. PACKAGE CONTENTS

Upon opening the package, please verify that all the following items are present and undamaged:

- 1 x Dixell XR02CX Digital Temperature Control Panel Thermostat
- 2 x Temperature Sensor Probes

5. SETUP AND INSTALLATION

Installation of the Dixell XR02CX thermostat requires electrical knowledge and should be performed by a qualified technician. Incorrect installation can lead to malfunction or safety hazards.

5.1 Mounting

The thermostat is designed for panel mounting. Ensure adequate space for ventilation and access to wiring terminals. Secure the unit firmly in place using appropriate mounting hardware (not included).

5.2 Wiring

Refer to the wiring diagram provided with your specific unit or consult a professional electrician. Key wiring connections include:

- **Power Supply:** Connect the main power supply (230V AC) to the designated terminals.
- **Load Connections:** Connect the refrigeration compressor and fan loads to the respective relay outputs.
- **Sensor Probes:** Connect the two temperature sensor probes to their dedicated inputs. One probe typically monitors the evaporator, and the other monitors the cabinet air temperature.

Important: Ensure all connections are secure and insulated to prevent short circuits.

6. OPERATING INSTRUCTIONS

The XR02CX features a clear digital display and intuitive button controls for easy operation.



This image shows the Dixell XR02CX digital temperature control panel. It features a dark display screen showing a red numerical reading of '-19°C'. To the left of the display, there are two green illuminated icons, one resembling a snowflake and another a fan, indicating cooling and fan operation. On the left side of the panel, there is a 'SET' button and a snowflake icon button. On the right side, there are 'Up' and 'Down' arrow buttons, and an 'AUX' button. The brand name 'dixell' is visible below the display.

6.1 Display Indicators

- **Numerical Display:** Shows the current temperature or parameter values.
- **Snowflake Icon:** Indicates the compressor is running or cooling cycle is active.
- **Fan Icon:** Indicates the evaporator fan is running.
- **°C / °F:** Temperature unit indicator.

6.2 Button Functions

- **SET Button:** Used to view and modify the setpoint temperature or access programming parameters.
- **UP Arrow (▲) Button:** Increases parameter values or scrolls through options.
- **DOWN Arrow (▼) Button:** Decreases parameter values or scrolls through options.
- **AUX Button:** (Auxiliary) Function varies based on configuration, often used for manual defrost or other auxiliary functions.
- **Snowflake Button:** (Left side, below display) Often used for manual defrost initiation or other specific functions depending on programming.

6.3 Setting the Temperature Setpoint

1. Press and release the **SET** button. The display will show the current setpoint value.
2. Use the **UP (▲)** or **DOWN (▼)** arrow buttons to adjust the setpoint to your desired temperature.
3. Press the **SET** button again to confirm and save the new setpoint. The display will return to showing the current cabinet temperature.

For advanced programming parameters, refer to the detailed Dixell XR02CX programming manual, typically available from the manufacturer or Xiltek support.

7. MAINTENANCE

Regular maintenance ensures the longevity and accurate operation of your Dixell XR02CX thermostat.

- **Cleaning:** Periodically wipe the control panel surface with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the unit.
- **Probe Inspection:** Regularly inspect the temperature sensor probes and their cables for any signs of damage, corrosion, or wear. Ensure they are securely connected and properly positioned within the refrigeration unit.
- **Ventilation:** Ensure that the area around the thermostat is free from obstructions to allow for proper heat dissipation.
- **Electrical Connections:** Periodically check all electrical connections for tightness and signs of overheating. This should only be done by a qualified technician with power disconnected.

8. TROUBLESHOOTING

If you encounter issues with your XR02CX thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display is blank or off.	No power supply; Blown fuse; Internal fault.	Check power connection and circuit breaker. Replace fuse if necessary (by qualified personnel). If problem persists, contact support.
Temperature reading is inaccurate.	Damaged sensor probe; Incorrect probe placement; Sensor calibration issue.	Inspect probes for damage and ensure correct placement. Consult programming manual for sensor calibration or replacement.
Compressor not running.	Setpoint too high; Defrost cycle active; Compressor protection delay; Faulty compressor or wiring.	Lower setpoint. Wait for defrost cycle to complete. Check for protection delays. Verify compressor wiring and functionality.
Unit constantly running (not reaching setpoint).	Refrigeration system issue (e.g., low refrigerant); Door left open; Excessive heat load; Sensor issue.	Check refrigeration system for leaks or blockages. Ensure doors are sealed. Reduce heat load. Verify sensor readings.

If the problem persists after attempting these solutions, please contact Xiltek customer support or a certified refrigeration technician.

9. SPECIFICATIONS

Model	XR02CX
Brand	Xiltek (Dixell Manufacturer)
Control Type	Button Control
Voltage	230 Volts (AC)
Item Weight	1 Pound

Color	Gray
Shape	Rectangular
First Available	May 12, 2018
ASIN	B071W6HTT4

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Dixell XR02CX thermostat, please contact Xiltek directly. Ensure you have your product model number (XR02CX) and purchase details available when contacting support.

Xiltek Contact Information: Please refer to the official Xiltek website or your purchase documentation for the most current contact details.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

