

Xiltek XW60L

DIXELL XW60L Digital Controller User Manual

Comprehensive guide for installation, operation, and maintenance.

1. PRODUCT OVERVIEW

The DIXELL XW60L is a versatile digital controller designed for medium and low temperature ventilated refrigeration applications. It features a clear display, intuitive keyboard, and multiple configurable inputs and outputs for precise temperature management and system control.



Image 1.1: Front view of the DIXELL XW60L Digital Controller, showing the red LED display and the six control buttons (up, down, set, light, defrost, power).

Key features include:

- Display: 3 digits with decimal point.
- Keyboard: 6 push buttons for easy navigation and setting adjustments.
- Power Supply: Designed for 230Vac operation.
- Probe Inputs: Supports NTC / PTC probes for thermostat, defrost, display, and condenser.
- Digital Inputs: Configurable for alarm, defrost start, door switch, and pressure switch.
- Relay Outputs: Dedicated outputs for compressor (20A), defrost (8A), fans (8A), and light (8A, 16A optional).
- Data Storage: EEPROM memory for settings retention.
- Front Protection: IP65 rated with gasket for enhanced durability.

2. SPECIFICATIONS

Feature	Detail
Manufacturer	DIXELL Italy
Model	XW60L
Power Supply	230 Vac
Display Type	Red LED (13mm high) with icons
Probe Inputs	NTC / PTC (Thermostat, Defrost, Display, Condenser)
Digital Inputs	Alarm, Defrost Start, Door Switch, Pressure Switch (Configurable)
Compressor Relay	20A
Defrost Relay	8A
Fans Relay	8A
Light/ON/OFF Relay	8A (16A optional)
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-30°C to 85°C (-22°F to 185°F)
Relative Humidity	20% to 85%
Resolution	0.1°C or 1°F
Connection	Screw-terminal block (<2.5mm²) and 6.3mm faston
Housing	Self-extinguishing ABS
Front Protection	IP65 with gasket

3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your DIXELL XW60L controller. Ensure all power is disconnected before beginning installation.

3.1 Mounting

The controller is designed for panel mounting. Ensure adequate space for ventilation and access to wiring terminals. The front panel offers IP65 protection when properly installed with its gasket.

3.2 Electrical Connections

All electrical connections should be made by a qualified technician in accordance with local electrical codes. The controller operates on 230Vac. Use appropriate gauge wiring for all connections.

- **Power Supply:** Connect the 230Vac power supply to the designated terminals.
- **Probe Inputs:** Connect NTC/PTC temperature probes to the respective thermostat, defrost, display, and condenser probe inputs. Ensure correct polarity if applicable.
- **Digital Inputs:** Wire external devices such as door switches, pressure switches, or alarm contacts to the configurable digital inputs.
- **Relay Outputs:** Connect the compressor, defrost heaters, evaporator fans, and cabinet light to their corresponding

relay outputs. Observe the maximum current ratings (Compressor 20A, Defrost 8A, Fans 8A, Light 8A/16A).

- **Serial Output (TTL):** If using, connect to compatible devices for data communication.

Refer to the wiring diagram provided with your specific unit for detailed connection points.

4. OPERATING INSTRUCTIONS

The DIXELL XW60L controller is operated via its six-button keyboard and monitored through its red LED display.

4.1 Display and Indicators

The 3-digit LED display shows the current temperature or parameter values. Various icons on the display indicate the status of relays (compressor, defrost, fans, light) and operational modes.

4.2 Keyboard Functions

- **SET Button:** Used to view and modify setpoints and parameters.
- **UP (▲) / DOWN (▼) Buttons:** Navigate through menus and adjust parameter values.
- **DEFROST Button (*):** Initiates a manual defrost cycle.
- **LIGHT Button (·):** Toggles the light output.
- **ON/OFF Button (·):** Powers the unit on or off.

4.3 Basic Operation

1. **Power On/Off:** Press the ON/OFF button to switch the controller on or off.
2. **Viewing Setpoint:** Press the SET button briefly to view the current temperature setpoint.
3. **Changing Setpoint:** Press and hold the SET button until the setpoint flashes. Use the UP/DOWN buttons to adjust the value, then press SET again to confirm.
4. **Manual Defrost:** Press and hold the DEFROST button for a few seconds to initiate a manual defrost cycle.
5. **Light Control:** Press the LIGHT button to turn the cabinet light on or off.

For advanced parameter configuration, refer to the detailed programming manual specific to the XW60L model, which outlines all configurable parameters and their functions.

5. MAINTENANCE

The DIXELL XW60L controller is designed for reliable operation with minimal maintenance. However, periodic checks can ensure its continued performance.

- **Cleaning:** Clean the front panel periodically with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the gasket is clean and intact to maintain IP65 protection.
- **Connections:** Periodically check all electrical connections for tightness and signs of corrosion. Ensure wiring is secure.
- **Probes:** Inspect temperature probes for physical damage or signs of wear. Ensure they are correctly positioned and clean.
- **Ventilation:** Ensure the area around the controller has adequate ventilation to prevent overheating.

Always disconnect power to the unit before performing any maintenance or inspection.

6. TROUBLESHOOTING

This section provides guidance on common issues you might encounter with your DIXELL XW60L controller. For complex

problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Display is blank	No power; faulty wiring; controller failure.	Check power supply. Verify wiring connections. If problem persists, contact support.
Temperature reading is inaccurate	Faulty probe; incorrect probe type selected; probe not properly installed.	Check probe connection and position. Verify probe type in parameters. Replace probe if damaged.
Compressor not running	Setpoint not met; high temperature alarm; defrost cycle active; faulty compressor relay.	Check setpoint and current temperature. Wait for defrost to complete. Check alarm status. Consult technician for relay check.
Defrost not initiating	Defrost parameters incorrect; faulty defrost probe; manual defrost not activated correctly.	Review defrost parameters. Check defrost probe. Ensure manual defrost button is held long enough.
Error code displayed (e.g., "P1", "E1")	Probe error; internal fault.	Refer to the full programming manual for specific error code definitions. Often indicates a probe issue.

7. WARRANTY AND SUPPORT

This DIXELL XW60L Digital Controller is manufactured by DIXELL Italy and distributed by Xiltek. For warranty information, technical support, or service inquiries, please contact your point of purchase or the official Xiltek support channels.

Ensure you have your product model number (XW60L) and any purchase details available when contacting support to facilitate a quicker resolution.

For further information and detailed programming guides, please visit the official DIXELL or Xiltek websites.

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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

Anonymous

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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