Red Lion Controls G308C000

Red Lion Controls G308C000 Operator Interface LCD Touch Screen User Manual

Model: G308C000 | Brand: Red Lion Controls

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of the Red Lion Controls G308C000 Operator Interface LCD Touch Screen. The G308C000 is a robust 24Vdc powered operator interface designed for industrial applications, featuring an LCD touch screen and physical buttons for control and data visualization.

2. Safety Information

Always observe the following safety precautions to prevent injury and damage to the device:

- Ensure power is disconnected before installation or maintenance.
- Only qualified personnel should perform installation and wiring.
- Do not operate the device in environments exceeding its specified temperature and humidity ratings.
- Protect the device from excessive vibration, shock, and direct sunlight.
- Refer to local electrical codes and regulations during installation.

3. Product Overview

The Red Lion Controls G308C000 features an 8-inch LCD touch screen, a set of programmable function buttons, and various communication ports for integration into industrial control systems.

3.1 Front Panel



Figure 3.1: Front view of the G308C000 showing the LCD touch screen, six square function buttons on the left, six triangular navigation buttons on the right, a 'MENU' button at the bottom left, and 'PWR' indicator lights at the bottom right.



Figure 3.2: Angled front view of the G308C000, highlighting the sleek black casing and the Red Lion logo in the top left corner.

3.2 Rear Panel and Connections



Figure 3.3: Rear panel of the G308C000, displaying power supply terminals, communication ports (RS485, RS232, Ethernet, USB, PGM Port), and product identification labels.

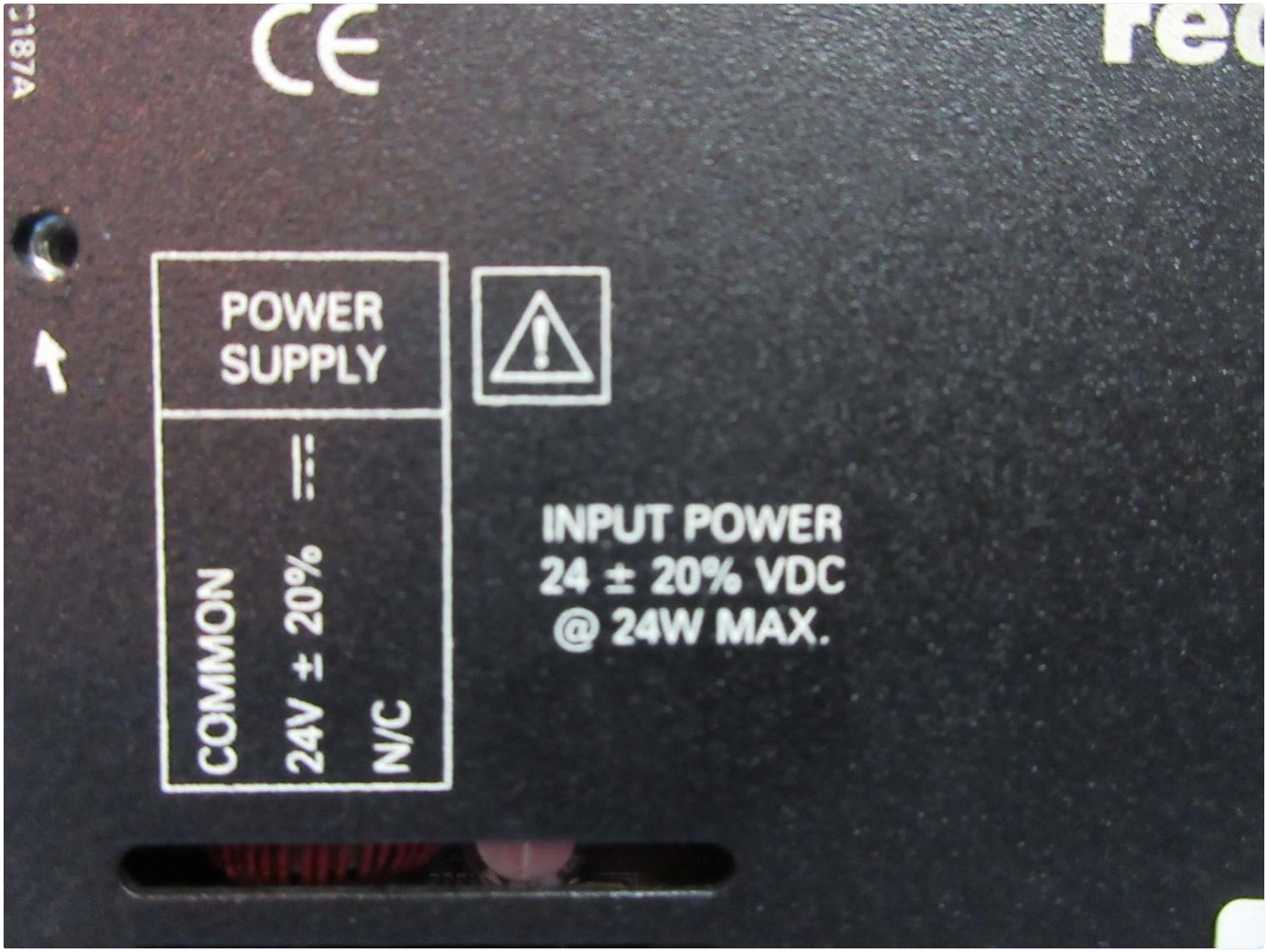


Figure 3.4: Close-up of the power supply section on the rear panel, indicating "INPUT POWER 24 ± 20% VDC @ 24W MAX." and terminals for COMMON, 24V ± 20%, and N/C.



Figure 3.5: Close-up of the product identification label on the rear panel, showing "RED LION CONTROLS", "www.redlion.net", "MODEL G308", "MADE IN U.S.A.", and "PT#: G308C000".

4. Setup and Installation

Follow these steps for proper installation of the G308C000 unit:

1. **Mounting:** Secure the unit into a panel cutout using the provided mounting hardware. Ensure adequate clearance for ventilation and cable connections.
2. **Power Connection:** Connect a 24Vdc power supply to the designated terminals on the rear panel. Refer to Figure 3.4 for terminal identification. Ensure correct polarity.
3. **Communication Wiring:** Connect necessary communication cables (Ethernet, RS232, RS485, USB) to their respective ports based on your system requirements.
4. **Grounding:** Properly ground the unit to prevent electrical interference and ensure safety.
5. **Initial Power-Up:** After all connections are secure, apply power. The 'PWR' indicator on the front panel should illuminate.

5. Operating Instructions

The G308C000 operates primarily through its LCD touch screen and programmable function buttons.

- **Touch Screen Navigation:** Interact with on-screen elements by touching them directly. The sensitivity can be calibrated via system settings.

- **Function Buttons:** The six square buttons on the left and six triangular buttons on the right are typically programmed for specific functions within the application. Their functionality is defined by the application loaded onto the device.
- **MENU Button:** Press the 'MENU' button (bottom left) to access system settings, calibration options, and diagnostic tools.
- **Power Indicator:** The 'PWR' LED indicates the power status of the unit.

For detailed operation specific to your application, refer to the application-specific documentation provided by your system integrator.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your G308C000 unit.

- **Cleaning:** Clean the touch screen and casing with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the unit is powered off before cleaning.
- **Firmware Updates:** Periodically check the Red Lion Controls website for firmware updates. Follow the provided instructions carefully for any update procedures.
- **Environmental Checks:** Ensure the operating environment remains within specified temperature and humidity ranges. Keep ventilation openings clear of dust and debris.
- **Cable Integrity:** Regularly inspect all connected cables for signs of wear or damage. Replace any damaged cables immediately.

7. Troubleshooting

This section provides solutions to common issues you may encounter.

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; incorrect wiring; faulty power supply.	Verify 24Vdc power connection and polarity. Check power supply output.
Touch screen unresponsive.	Calibration issue; software freeze.	Access the MENU to recalibrate the touch screen. Power cycle the unit.
Communication errors.	Incorrect cable; wrong protocol settings; network issue.	Check cable connections. Verify communication settings (baud rate, IP address, etc.). Consult network administrator.

If the problem persists, contact Red Lion Controls technical support or your authorized distributor.

8. Specifications

Feature	Detail
Model	G308C000
Input Power	24 ± 20% VDC @ 24W MAX.
Display Type	LCD Touch Screen

Feature	Detail
Manufacturer	Red Lion Controls
ASIN	B01MG7IJ6K
First Available Date	February 12, 2025

9. Warranty and Support

Specific warranty information for the Red Lion Controls G308C000 is typically provided at the point of purchase or can be found on the official Red Lion Controls website. For technical support, product documentation, or service inquiries, please visit www.redlion.net or contact your local Red Lion Controls distributor.

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