

LVSEDTAL PI3102IG-C(AG)

LVSEDTAL 10-inch HMI PI3102IG-C(AG) User Manual

Model: PI3102IG-C(AG)

1. INTRODUCTION

The LVSEDTAL 10-inch Human Machine Interface (HMI) model PI3102IG-C(AG) is designed for seamless interaction with various Programmable Logic Controllers (PLCs) and intelligent controllers. This HMI features low power consumption, fast operation speed, and stable performance, making it suitable for a wide range of industrial and commercial applications. Its comprehensive compatibility and ease of programming ensure efficient integration into existing systems.

2. SETUP AND INSTALLATION

2.1 Unpacking

Carefully remove the HMI unit from its packaging. Inspect the device for any signs of damage during transit. Ensure all components are present.

2.2 Mounting the HMI

The PI3102IG-C(AG) HMI is designed for panel mounting. Refer to the installation size diagram for precise cutout dimensions.

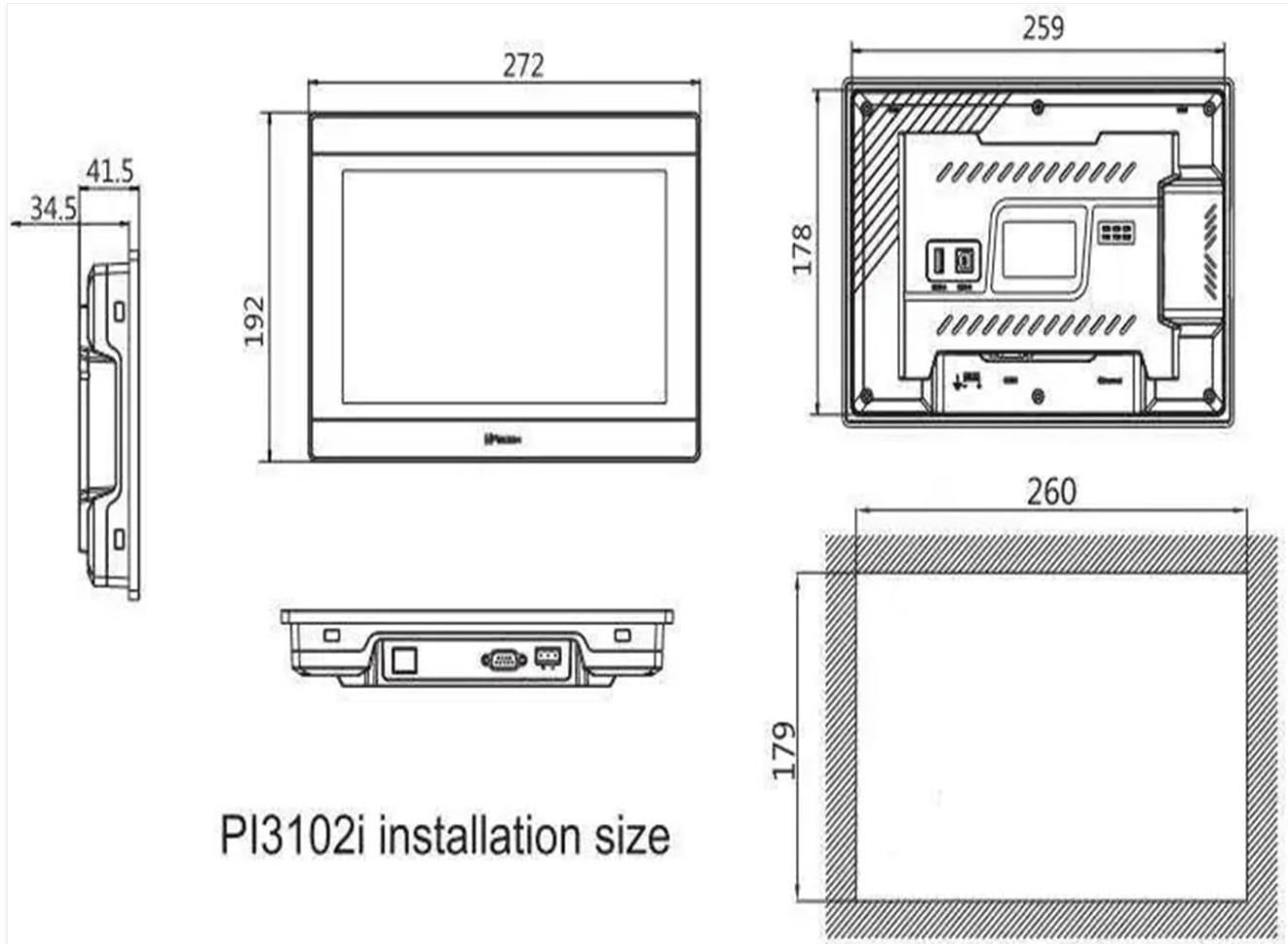


Figure 2.2.1: Installation dimensions for the LVSEDTAL PI3102IG-C(AG) HMI. This diagram shows the front panel dimensions (272x192mm), side profile (41.5mm depth), rear view with mounting holes, and the required panel cutout size (260x179mm).

1. Prepare a panel cutout according to the dimensions provided in the installation diagram (typically 260mm x 179mm).
2. Insert the HMI unit into the cutout from the front.
3. Secure the HMI using the provided mounting clips or screws from the rear of the panel.

2.3 Connecting Peripherals

The HMI features various communication ports for connecting to PLCs, intelligent controllers, and other devices.



Figure 2.3.1: Rear view of the LVSEDTAL PI3102IG-C(AG) HMI, illustrating the location of USB ports (Type A and Type B) and serial communication ports.



Figure 2.3.2: Bottom view of the LVSEDTAL PI3102IG-C(AG) HMI, highlighting the power input terminal and the Ethernet port.

- **USB Ports:** Connect USB devices such as flash drives for project transfer or external keyboards/mice.
- **Serial Ports (COM):** Use these ports to establish communication with PLCs or other serial devices. Refer to your PLC's documentation for correct wiring.
- **Ethernet Port:** Connect to a network for data exchange, remote monitoring, or programming.
- **Power Input:** Connect the appropriate DC power supply to the terminal block. Ensure the voltage matches the HMI's requirements (typically 24V DC, though specific voltage should be verified from product label).

2.4 Powering On

Once all connections are secure, apply power to the HMI. The device will initiate its boot sequence.

3. OPERATING INSTRUCTIONS

3.1 Basic Operation

The LVSEDTAL HMI provides a touch-sensitive display for user interaction. Once powered on and a project is loaded, the HMI will display the configured interface.

- **Touch Interface:** Interact with on-screen buttons, input fields, and displays by touching the screen.
- **Project Loading:** HMI projects are typically created using dedicated software on a computer and then transferred to the HMI via USB or Ethernet.
- **Communication:** The HMI communicates with connected PLCs or controllers to display data, send commands, and monitor system status as defined in the loaded project.

3.2 Programming and Compatibility

This HMI is designed for easy programming and offers comprehensive compatibility with various PLCs and intelligent controllers. Refer to the specific programming software documentation for detailed instructions on creating and deploying HMI projects.

4. MAINTENANCE

4.1 Cleaning

To maintain optimal performance and readability, regularly clean the HMI screen and casing.

- Use a soft, lint-free cloth dampened with a mild, non-abrasive cleaning solution (e.g., screen cleaner or water).
- Do not spray cleaning solution directly onto the screen or into any openings.
- Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the display or casing.

4.2 Environmental Considerations

Ensure the HMI operates within its specified environmental conditions (temperature, humidity) to prevent damage and ensure longevity. Avoid exposing the unit to excessive dust, moisture, or direct sunlight.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your LVSEDTAL HMI.

Problem	Possible Cause	Solution
HMI does not power on.	No power supply, incorrect voltage, loose power connection.	Check power cable connection. Verify power supply voltage. Ensure power is switched on.
Display is blank or unresponsive.	No project loaded, HMI frozen, backlight issue.	Ensure a valid project is loaded. Try restarting the HMI. Contact support if the issue persists.
Communication error with PLC.	Incorrect cable, wrong communication settings, PLC not powered or configured.	Verify communication cable integrity. Check HMI and PLC communication settings (baud rate, parity, data bits). Ensure PLC is operational.
Touch screen is inaccurate.	Calibration needed, debris on screen.	Clean the screen. Refer to the HMI's system settings for touch screen calibration.

6. SPECIFICATIONS

Key technical specifications for the LVSEDTAL PI3102IG-C(AG) HMI:

Model Number	PI3102IG-C(AG)
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Brand	LVSEDTAL
Display Size	10 inches (implied from title)
Item Weight	1.1 pounds
Package Dimensions	1.18 x 0.79 x 0.39 inches
Manufacturer	LVSEDTAL
Assembly Required	No
Number of Pieces	1

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Specific warranty details for the LVSEDTAL PI3102IG-C(AG) HMI are typically provided at the point of purchase or within separate documentation from the manufacturer. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, contact your seller or the manufacturer directly.

7.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your HMI, please contact the LVSEDTAL customer support or your authorized distributor.

When contacting support, please have the following information ready:

- Product Model: **PI3102IG-C(AG)**
- Description of the issue
- Steps already taken to resolve the issue