

Aoleaby PI3102IG(AG)

Aoleaby 10-inch HMI PI3102IG(AG) Instruction Manual

[Overview](#) [Setup](#) [Operation](#) [Introduction](#) [Safety Information](#) [Product](#)
[Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Aoleaby 10-inch Human Machine Interface (HMI) model PI3102IG(AG). Please read this manual thoroughly before using the product to ensure safe and efficient operation. Keep this manual for future reference.

2. SAFETY INFORMATION

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

- Ensure the power supply voltage matches the device's requirements.
- Do not expose the device to extreme temperatures, humidity, or corrosive environments.
- Disconnect power before performing any installation, maintenance, or cleaning.
- Only qualified personnel should perform installation and wiring.
- Avoid strong impacts or vibrations to the device.

3. PRODUCT OVERVIEW

The Aoleaby 10-inch HMI PI3102IG(AG) is an industrial touch screen designed for various automation scenarios. It features low power consumption, fast operation speed, and stable performance, making it an ideal entry-level solution for simple HMI applications. It supports both touch and key functionality for intuitive operation.

3.1 Key Features

- Low power consumption for energy efficiency.
- Fast operation speed and stable performance for reliable industrial use.
- Applicable in various industrial automation scenarios.
- Simple installation with included screws and fixing accessories.

- Intuitive operation via touch and key functionality.

3.2 Device Components and Ports

Familiarize yourself with the various ports and components of the HMI.



Figure 1: Rear Panel of the HMI. This image displays the back of the Aoleaby 10-inch HMI, highlighting the USB ports (Type A and Type B) for connectivity and numerous ventilation slots for heat dissipation. Mounting holes are visible at the corners.



Figure 2: Bottom Ports of the HMI. This image shows the bottom edge of the Aoleaby 10-inch HMI, featuring a power input terminal, a DB9 serial port (likely RS232), and an Ethernet port for network communication.

4. SETUP AND INSTALLATION

The Aoleaby HMI is designed for simple installation. Follow these steps for proper setup.

4.1 Mechanical Installation

The HMI is typically panel-mounted. Ensure the mounting surface is flat and stable. Use the provided screws and fixing accessories for secure installation.

1. Prepare the mounting cutout according to the dimensions provided in Figure 3.
2. Insert the HMI into the cutout from the front.
3. Secure the HMI using the provided mounting clips and screws from the rear, ensuring a tight fit.

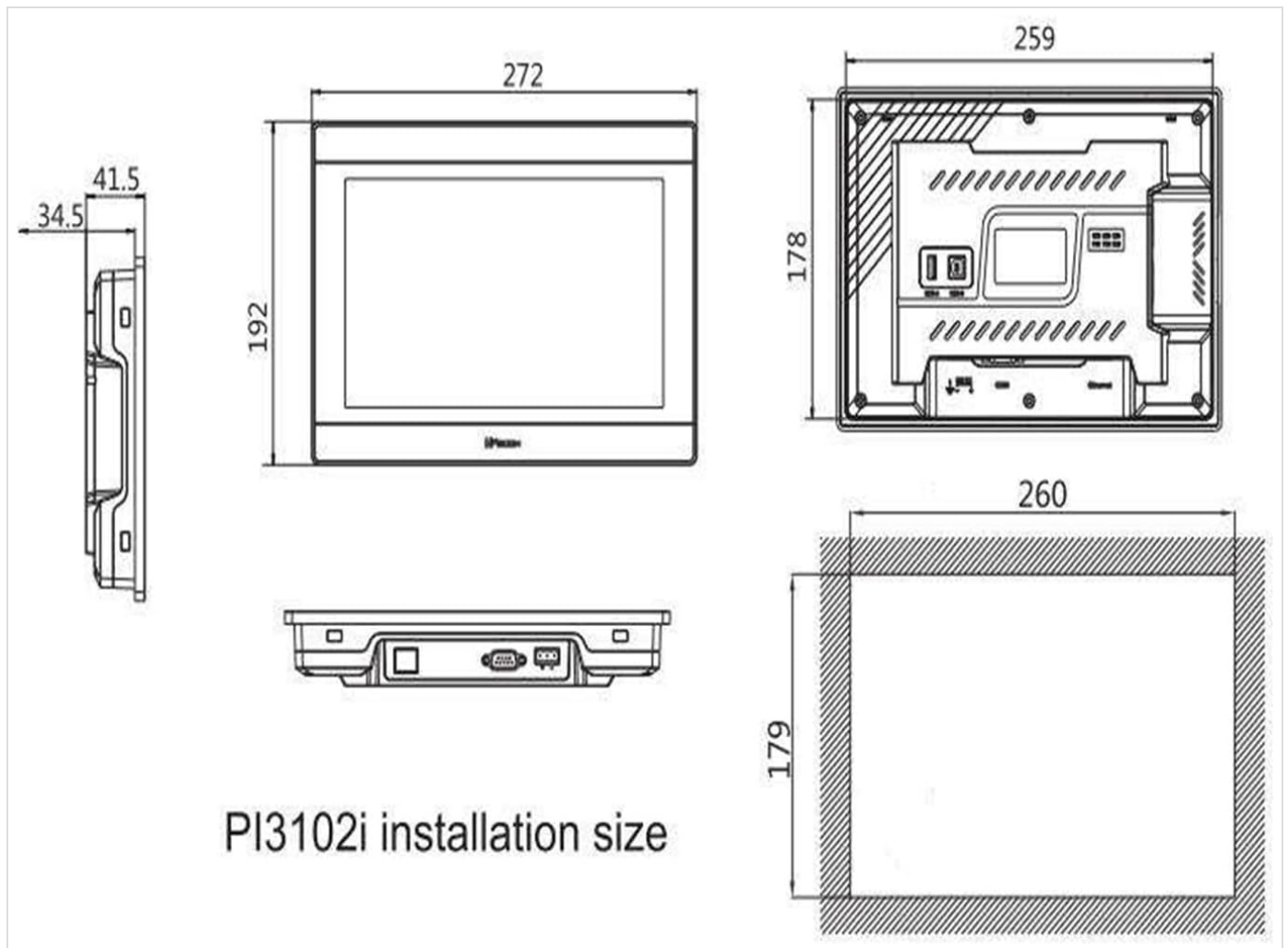


Figure 3: PI3102i Installation Size. This diagram illustrates the physical dimensions of the HMI (272mm width, 192mm height, 34.5mm depth) and the required cutout size for panel mounting (260mm width, 179mm height).

4.2 Electrical Connections

- **Power Connection:** Connect the appropriate DC power supply to the power input terminal (refer to Figure 2). Ensure correct polarity.
- **Communication Ports:**
 - **Serial Port (DB9):** Connect to your PLC or other serial devices using a compatible cable.
 - **Ethernet Port:** Connect to your network for data exchange or programming.
 - **USB Ports:** Use for connecting USB devices such as flash drives or programming cables (refer to Figure 1).

5. OPERATING INSTRUCTIONS

Once installed and powered on, the HMI will boot up. The operating system and application software will load, presenting the user interface.

5.1 Basic Operation

- **Touch Screen:** Interact with the HMI by touching the screen directly with your finger or a non-sharp stylus.
- **Key Functionality:** If physical keys are present, use them for navigation or specific functions as defined by the

application.

- **Navigation:** Follow the on-screen prompts and application design for navigating menus, entering data, and controlling connected equipment.

5.2 Software Configuration

For detailed software configuration and application development, refer to the specific software manual provided by the manufacturer. This typically involves using a dedicated HMI programming software on a PC to design screens, define communication protocols, and upload the project to the HMI via USB or Ethernet.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your HMI.

- **Cleaning:**
 - Wipe the screen and casing with a soft, damp cloth.
 - Do not use abrasive cleaners, solvents, or harsh chemicals.
 - Ensure the device is powered off and disconnected from power before cleaning.
- **Ventilation:** Ensure ventilation slots are clear of dust and debris to prevent overheating.
- **Firmware Updates:** Periodically check the manufacturer's website for firmware updates to improve performance and security.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your HMI.

Problem	Possible Cause	Solution
Device does not power on.	No power supply or incorrect wiring.	Check power cable connection and ensure power supply voltage is correct. Verify wiring polarity.
Touch screen is unresponsive.	Screen calibration issue or software freeze.	Restart the device. If issue persists, recalibrate the touch screen (refer to software manual).
Communication error with PLC.	Incorrect communication settings or cable issues.	Verify communication protocol, baud rate, and port settings in the HMI software. Check physical cable connections.
Display is blank or distorted.	Software issue or hardware malfunction.	Restart the device. If the problem continues, contact technical support.

If you encounter problems not listed here or if the suggested solutions do not resolve the issue, please contact technical support.

8. SPECIFICATIONS

The following are the technical specifications for the Aoleaby 10-inch HMI PI3102IG(AG):

Feature	Detail
Brand	Aoleaby

Feature	Detail
Model Name	Aoleaby (PI3102IG(AG) variant)
Special Feature	Touchscreen
Color	One Color
Item Weight	600 Grams
Manufacturer	Aoleaby
Unit Count	1.0 Count
ASIN	B0DB7WVLMB

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact the manufacturer directly. Keep your proof of purchase for warranty claims.

9.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your Aoleaby HMI, please contact the manufacturer's customer support. Contact information can typically be found on the manufacturer's official website or on the product packaging.

© 2023 Aoleaby. All rights reserved. Information in this manual is subject to change without notice.

ASK A QUESTION ABOUT THIS MANUAL

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

Email

you@example.com

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