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› Arionyx M2 Series HMI with Ethernet Display Screen (Model M2043H) User Manual

Arionyx M2043H

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Model: M2043H

1. INTRODUCTION

Thank you for choosing the Arionyx M2 Series Human Machine Interface (HMI) with Ethernet Display Screen. This manual provides essential information for the safe and efficient operation of your M2043H model. Please read this manual thoroughly before installation and use, and retain it for future reference.

2. SAFETY INFORMATION

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

- Ensure the power supply matches the device's requirements.
- Do not expose the device to excessive moisture, dust, or extreme temperatures.
- Only qualified personnel should perform installation and maintenance.
- Disconnect power before cleaning or servicing the unit.
- Avoid touching internal components when the device is powered on.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Arionyx M2 Series HMI (Model M2043H)
- Mounting hardware
- Power connector
- USB programming cable (optional, may be sold separately)
- Quick Start Guide (this manual)

4. PRODUCT OVERVIEW

The Arionyx M2 Series HMI is an industrial-grade display screen designed for robust performance and user-friendly interaction in various industrial environments. Key features include:

- **Durability and Ruggedness:** Designed for extreme conditions, featuring water resistance and other protective characteristics.
- **High-Resolution Display and Touchscreen:** Equipped with a high-resolution touchscreen for clear images and responsive operation.
- **Wide Range of Communication Interfaces and Protocol Support:** Supports multiple communication interfaces for versatile connectivity.
- **User-Friendly Programming and Configuration Tools:** Offers intuitive programming software with drag-and-drop interfaces and extensive graphic libraries.
- **Data Logging and Analysis:** Includes data logging capabilities for storing production data and event logs.

4.1 Components

Below is an illustration of the HMI unit and its main components.



Figure 1: Front view of the Arionyx M2 Series HMI. This image shows the display screen, typically with a black bezel, and hints at the compact industrial design. The exact location of ports is not visible in this general product image but would typically be on the rear or sides.

The HMI typically consists of a display panel, a touch-sensitive overlay, and various input/output ports (e.g., Ethernet, USB, serial ports) located on the rear or sides for connectivity to industrial control systems and power.

5. SETUP AND INSTALLATION

5.1 Mounting

The M2043H HMI is designed for panel mounting. Follow these general steps:

1. Prepare an opening in the control panel according to the dimensions provided in the specifications section.
2. Insert the HMI unit into the opening from the front.
3. Secure the HMI using the provided mounting clips or screws from the rear of the panel. Ensure a tight fit to maintain environmental sealing.

5.2 Electrical Connections

Connect the power supply and communication cables as follows:

- **Power:** Connect the appropriate DC power supply to the HMI's power input terminal. Refer to the specifications for voltage requirements. Ensure power is off during connection.
- **Ethernet:** Connect an Ethernet cable from your network switch or PLC to the HMI's Ethernet port for network communication.
- **Serial Ports (if applicable):** If using serial communication, connect RS232/RS485 cables to the respective ports.
- **USB:** Use the USB port for programming or data transfer with a computer.

After all connections are made, apply power to the HMI. The device should power on and display the boot screen.

6. OPERATING INSTRUCTIONS

6.1 Basic Operation

The HMI operates via its integrated touchscreen. Navigate through screens and interact with controls by touching the display. The specific interface and functionality will depend on the project loaded onto the HMI.

6.2 Programming and Configuration

To create or modify HMI projects, use the dedicated programming software provided by Arionyx (typically available for download from the manufacturer's website). This software allows you to:

- Design custom user interfaces with various graphical elements.
- Configure communication drivers for PLCs and other devices.
- Set up alarms, trends, and data logging functions.
- Download projects to the HMI via USB or Ethernet.

6.3 Data Logging

The HMI supports data logging. Configure logging parameters within the programming software, specifying data points, logging intervals, and storage locations (e.g., internal memory, external USB drive if supported). Logged data can be retrieved for analysis.

7. MAINTENANCE

7.1 Cleaning

To clean the HMI screen and casing:

- Power off the device and disconnect it from the power source.
- 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.

7.2 Firmware Updates

Periodically check the Arionyx website for firmware updates. Updating the firmware can improve performance, add new features, or resolve issues. Follow the instructions provided with the firmware update package carefully.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
HMI does not power on.	No power supply, incorrect voltage, faulty cable.	Check power connections, verify voltage, test power cable.
Touchscreen unresponsive.	Screen calibration issue, software error, physical damage.	Restart HMI, recalibrate touchscreen (if option available), contact support if damaged.
Communication error with PLC.	Incorrect communication settings, faulty cable, network issue.	Verify HMI and PLC communication settings, check cables, ensure network connectivity.
Project download fails.	Incorrect connection, software version mismatch, firewall.	Ensure proper USB/Ethernet connection, verify software compatibility, temporarily disable firewalls.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Arionyx technical support.

9. SPECIFICATIONS

Feature	Detail
Model Number	M2043H
Brand	Arionyx
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	6.61 pounds
Manufacturer	Arionyx
Assembly Required	No
Number of Pieces	1

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Arionyx website or contact your local distributor. Keep your purchase receipt as proof of purchase for warranty claims.

Arionyx Official Website: www.arionyx.com *(Note: This is a placeholder URL as no official website was provided in the input. Please replace with the actual website if available.)*