Mitsubishi Electric GT2712-STBA

Mitsubishi Electric GT2712-STBA GT27 Base Unit User Manual

Model: GT2712-STBA

1. Introduction

This manual provides essential information for the safe and efficient use of the Mitsubishi Electric GT2712-STBA GT27 Base Unit. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper handling and to prevent accidents or damage to the product.

2. Safety Information

Always observe the following safety precautions to prevent injury or damage.

- Ensure the power supply voltage and frequency match the product specifications.
- Do not operate the unit with wet hands.
- Do not disassemble or modify the unit. Refer all servicing to qualified personnel.
- Protect the unit from excessive vibration, shock, dust, moisture, and direct sunlight.
- Ensure proper grounding to prevent electrical shock.

3. Product Overview

The GT2712-STBA is a 12.1-inch TFT color LCD base unit designed for industrial applications, featuring an analog resistive film touch panel and robust specifications for reliable performance.



Figure 1: Technical drawing illustrating the external dimensions and panel cutout requirements for the GT2712-STBA unit. The front view shows a width of 316mm and height of 246mm. The side view shows a depth of 52mm. The bottom view details various ports and connections. Panel cutout dimensions are 302mm (width) by 228mm (height).

4. Setup

4.1. Mounting

The GT2712-STBA unit requires a panel cutout for installation. Ensure the cutout dimensions are precisely followed to secure the unit properly.

- **Panel Cutout Dimensions:** 302 mm (Width) x 228 mm (Height).
- Secure the unit using appropriate mounting brackets (not included, refer to product accessories).
- Ensure sufficient space for ventilation around the unit.

4.2. Power Supply Connection

Connect the power supply according to the following specifications:

- **Input Power Supply Voltage:** 100 to 240VAC (+10%, -15%)
- **Input Power Supply Frequency:** 50/60Hz +/-5%
- **Applicable Wire Size:** 0.75 to 2 mm^2
- **Clamp Terminal:** Use clamp terminals for M3 screws (RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A).
- **Tightening Torque (Terminal Block's Terminal Screws):** 0.5 to 0.8 N·m.

Verify all connections are secure before applying power.

5. Operating Instructions

5.1. Basic Operation

The GT2712-STBA features an analog resistive film touch panel for user interaction.

- **Touch Panel:** Respond to touch input. Minimum key size is 2x2 dots. Supports a maximum of 2 simultaneous touch points.
- **Display:** The 12.1-inch TFT color LCD provides 65536 colors with 800x600 SVGA resolution.
- **Intensity Adjustment:** The display intensity can be adjusted across 32 levels.
- **Power LED:** Indicates operational status with blue and orange emission colors.
- **Buzzer Output:** Provides single-tone feedback; tone and tone length are adjustable.

5.2. Software Compatibility

To program and configure the GT2712-STBA, use the following software package:

- **Applicable Software Package:** GT Works3 Version 1.113T or Later.

6. Maintenance

6.1. Backlight

The backlight uses LED technology and is **not replaceable** by the user. If the backlight fails, the entire unit may require servicing.

6.2. Battery

The unit contains a GT11-50BAT lithium battery.

- **Battery Type:** GT11-50BAT lithium battery.
- **Estimated Life:** Approximately 5 years (at an ambient temperature of 25°C).

Battery replacement should be performed by qualified service personnel.

6.3. Cleaning

To clean the display and casing, use a soft, dry cloth. For stubborn dirt, lightly dampen the cloth with a mild, non-abrasive cleaner. Do not use strong solvents or abrasive materials.

7. Troubleshooting

If you encounter issues with your GT2712-STBA unit, consider the following:

- **No Power:** Check power supply connections and voltage. Ensure the power cable is securely plugged in.
- **Display Issues:** Verify display settings and intensity adjustment. If the screen remains blank, the backlight may have failed (requires professional service).
- **Touch Panel Unresponsive:** Ensure the screen is clean and free from obstructions. If issues persist, a calibration or service may be required.
- **Software Communication Errors:** Confirm the correct software version (GT Works3 Version 1.113T or Later) is installed and communication cables are properly connected.

For persistent problems, contact Mitsubishi Electric technical support.

8. Specifications

Category	Specification
Power Supply Voltage	100 to 240VAC (+10%, -15%)
Power Supply Frequency	50/60Hz +/-5%
Power Consumption (Max Load)	44W or less
Power Consumption (Stand Alone)	19W
Power Consumption (Stand Alone w/ Backlight Off)	10W
Inrush Current	60A or less (2ms, 25°C, max load)
Permissible Instantaneous Failure Time	Within 20ms (100VAC or more)
Display Type	TFT color LCD
Screen Size	12.1 inches
Resolution	800 x 600 SVGA
Display Size (W x H)	246.0 x 184.5 mm
Display Colors	65536 colors
Intensity Adjustment	32-level adjustment
Backlight Type	LED (not replaceable)
Touch Panel Type	Analog resistive film
Touch Panel Life	1 million times or more (operating force 0.98N or less)
User Memory Capacity (ROM)	57MB
User Memory Capacity (RAM)	128MB
Battery Type	GT11-50BAT lithium battery
Battery Life	Approx. 5 years (at 25°C)
External Dimensions (W x H x D)	316 x 246 x 52 mm
Panel Cutout (W x H)	302 x 228 mm
Weight (Excluding Mounting Brackets)	2.4 kg
Applicable Software Package	GT Works3 Version 1.113T or Later

9. Warranty Information

Mitsubishi Electric products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact your local Mitsubishi Electric

representative. Keep your proof of purchase for warranty claims.

10. Support

For technical assistance, product inquiries, or service requests, please contact Mitsubishi Electric customer support or visit the official Mitsubishi Electric website for your region. Provide your product model number (GT2712-STBA) when seeking support.

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