GT1155-OTBD, GT1155-QSBD, GT1150-QLBD
GT11 General Description

This manual describes the main, peripheral, environmental, and specifications of this product. Before using this product, carefully read and understand the content of this manual. Failure to do so may cause damage to the product or personal injury.

Safety Precaution

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly. If you do not correctly handle this product, which is not used in the manual, there is a possibility of serious damage such as personal injury or property damage. If you are not sure about the product or fail to handle it correctly, immediately refer to the nearest dealer or manufacturer.

1. Features

The GOT1000 Series is a series of GOT1000 models. These models are compatible with the following GOT versions, etc., and can be used for various purposes.

- GOT1150-QLBD
- GOT1155-OTBD
- GOT1155-QSBD
- GOT1150-QLBD

2. Specifications

2.1 Front Panel

2.2 Back Panel

3.2 Performance Specifications

- CPU: ARM9 32-bit RISC
- Memory: 2MB flash memory, 1MB SRAM (internal), 512kbytes (battery backup)
- RTC: Battery backup
- Display: 5.7" diagonal [320 x 240 dots, STN monochrome (black/white, 16 scales), built-in battery and backlight
- Power supply: 100V/110V-140V/150V/180V ±10, 60Hz, 2A/3A
- Operating environment: 0°C to 40°C (5°C to 30°C recommended), 20% to 80% (non-condensing)
- Storage environment: 0°C to 70°C (5°C to 30°C recommended), 10% to 90% (non-condensing)
- Weight: 0.4 kg
- Dimensions: 180 x 108 x 80 mm

4. Associated Manuals

- GT Designer3 Design Manual
- GT Designer3 Programming Manual
- GT Designer3 Design Manual Supplement
- GT Designer3 Programming Manual Supplement
- GT Designer3 Developer's Guide
- GT Designer3 Developer's Guide Supplement
- GT Designer3 User's Manual
- GT Designer3 User's Manual Supplement

5. Warranty

Mitsubishi Electric Corporation provides a 1-year warranty for this product.

6. Instructions

- Please read this manual carefully before using the product.
- Follow the instructions in this manual to ensure proper use of the product.
- Keep this manual as a reference for future use.

7. Maintenance

- The GOT1000 Series is designed and manufactured to provide long-term reliability and minimal maintenance.
- Regular maintenance is not required, but if any problems occur, refer to the troubleshooting section of this manual.

8. Troubleshooting

- If you encounter any problems with the GOT1000 Series, refer to the troubleshooting section of this manual.
- Contact your nearest authorized dealer or Mitsubishi Electric Corporation Customer Support Center for assistance.

9. Contact Information

- Mitsubishi Electric Corporation
  - Address: 7255 Redondo Beach Blvd, Suite 100, Redondo Beach, CA 90277
  - Phone: +1-310-379-2000
  - Fax: 011-81-3-5476-3911
  - Email: info@got.mitsubisielc.com

10. Technical Support

- Mitsubishi Electric Corporation offers technical support to customers worldwide.
- For technical support, contact your nearest authorized dealer or Mitsubishi Electric Corporation Customer Support Center.

11. Other Information

- For more information, visit the Mitsubishi Electric Corporation website at www.got.mitsubisielc.com
- This manual is subject to change without notice.
- The information in this manual is protected by copyright, and no part of this manual may be reproduced or transmitted in any form or by any means without written permission from Mitsubishi Electric Corporation.

12. Disclaimers

- Mitsubishi Electric Corporation does not assume any responsibility for any errors or omissions in this manual.
- Mitsubishi Electric Corporation shall not be liable for any incidental or consequential damages resulting from the use of this product or the inability to use this product or the use of products that are compatible with this product.

13. Legal Notice

- This product is protected by the intellectual property rights of Mitsubishi Electric Corporation and its licensors.
- Unauthorized use of this product or any part thereof is prohibited by law and will result in legal action.

14. Revision History

- Version 1.0: Initial release
- Version 1.1: Updated to reflect changes in product specifications
- Version 1.2: Further updates to reflect changes in product specifications

15. Trademarks

- GOT1000 is a trademark of Mitsubishi Electric Corporation.
- Other trademarks are the property of their respective owners.

16. Accessibility

- This manual is designed to be accessible to individuals with disabilities.
- If you require any accessibility accommodations, please contact Mitsubishi Electric Corporation Customer Support Center.

17. Environmental Considerations

- Mitsubishi Electric Corporation is committed to environmental sustainability.
- This product is designed to minimize environmental impact throughout its life cycle.

18. Regulatory Compliance

- This product complies with all applicable safety and regulatory standards.
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2. Port Name

2.1 Front Panel

1) RS-232
2) RF-02
3) CF card slot
4) Stop switch
5) Test switch
6) SD card slot
7) USB connector
8) Backlight shutoff detection function

2.2 Back Panel

1) Battery pack
2) Power supply section
3) Ground terminal
4) Key size
5) Touch module
6) CF card eject button
7) Power supply section
8) Battery pack

3. Specifications

3.1 General Specifications

- Screen size: 5.7”
- Touch keys: 300 keys/screen (Matrix structure of 15 lines x 20 columns)
- Life*: approx. 75,000h or longer (Time for display intensity reaches 50% at the operating ambient temperature of 25°C)
- Controller: Built-in controller
- Memory: 8MB built-in flash memory (for program storage)
- Number of colors: 256-color display
- Transmission speed: 115,200/57,600/38,400/19,200/9,600/4,800bps
- Transmission protocol: RS-232C (DTE), EIA/RS-422A, EIA/Rs-485, EIA/LVDS
- Display character: STN 240 dots x 240 dots, white/black liquid crystal, 16 scales
- Resolution: 240 dots x 240 dots
- Response time: 50 ms
- Frequency Acceleration: Half-amplitude Sweep Count
- Duty factor: 2% (min) / 8% (max)
- Voltage range: DC 12 V
- Current range: 0.85 A
- Power consumption: 20 W
- Ambient temperature: 0°C to 50°C
- Humidity: 5% to 95%
- Shock resistance: Conforms to JIS B3502, IEC 61131-2 (147 m/s², 3 times each in X, Y and Z directions)
- Vibration resistance: Conforms to JIS B3502 and IEC 61131-2
- Dust-/Water-proof packing: 1
- Dimensions: 255 x 159 x 61 mm
- Weight: 0.5 kg
- Power: CA power supply
- Interface: 1) RS-232 connection (DTE), 2) RF-02 connection
- Operating conditions: 0°C to 50°C
- Storage conditions: -25°C to 70°C
- CE (EMC) directive: 2004/108/EC
- UL standard: 60950-1
- Safety standard: IEC/EN 61010-1
- Input voltage: DC 12 V
- Battery: lithium-ion battery
- Battery life: approx. 1000 h
- Capacity: 1.4Ah
- Battery charger: DC12V/1A

3.2 Performance Specifications

- Display character: STN 240 dots x 240 dots
- Display colors: 256-color display
- Response time: 50 ms
- Frequency: Half-amplitude Sweep Count
- Duty factor: 2% (min) / 8% (max)
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- Input voltage: DC 12 V
- Battery: lithium-ion battery
- Battery life: approx. 1000 h
- Capacity: 1.4Ah
- Battery charger: DC12V/1A
2) Inserting into the panel face

When the temperature inside the control panel is 40 to 55°C, make note of the following points when inserting the GOT:

- When using multiple hole-patterned plates, please note that there is an individual difference between them.
- A protective plastic film may be removed when using the panel face. Be sure to remove it before using the product.
- When using multiple plate-patterned panels, please note that the location of the display panel may appear on the liquid crystal display panel. Please note that it appears due to its characteristic.

4.3 Mounting Position

4.3.1 Mounting Position Across the Panel

When mounting the main unit to a control panel or similar, set the display section of the GOT prior to installation groove.

4.4 Environmental Protection

4.4.1 Environmental Protection

When using multiple hole-patterned plates, please note that there is an individual difference between them.

4.4.2 Environmental Protection

When using multiple plate-patterned panels, please note that the location of the display panel may appear on the liquid crystal display panel. Please note that it appears due to its characteristic.

4.4.3 Environmental Protection

When using multiple hole-patterned plates, please note that there is an individual difference between them.

4.5 Panel Cutting Dimensions

4.5.1 Panel Cutting Dimensions

When cutting the GOT, be sure to refer to the shown on the left.

4.6 Maintenance and Inspection

4.6.1 Maintenance and Inspection

When using multiple hole-patterned plates, please note that there is an individual difference between them.

4.7 Battery Replacement

4.7.1 Battery Replacement

When using multiple hole-patterned plates, please note that there is an individual difference between them.

4.7.2 Battery Replacement

When using multiple hole-patterned plates, please note that there is an individual difference between them.
3) Fixing the GOT

4.4 Control Panel Inside Temperature and Mounting Angle

4.3 Mounting Position

The GOT will be

Input power supply voltage 24VDC (+10% -15%), ripple voltage 200 mV or less

Applicable solderless terminal Solderless terminal for M3 screw RAV1.25-3, V2-N3A, FV2-N3A

Dielectric withstand voltage 500VAC for 1 minute (across power supply terminals and earth)

heat-generating radiated-noise or

Environmental protective structure*5 Equivalent to IP67 (JEM1030) (front section) when the USB environmental protective cover is attached

*3 ROM in which new data can be written without deleting the written data.

*2 Using the GOT Backlight OFF function can prolong the life of the backlight.

*1 Vertical format....50 mm (1.97”) or more

For details on the screen saver function, refer to the following.

5. Wiring

5.1 Power Supply Wiring

Connect the power supply to the power terminals on the back panel of the GOT. Use 3mm² to 15mm² of cable to avoid voltage drop and tighten the terminal screw with the specified torque (6.5Nm).

6. Maintenance and Inspection

The GOT is designed for use in industrial applications.

This product is designed for use in industrial applications.

5) Fixing the GOT

6.1 Battery Replacement

The battery is used for backing up the clock data, alarm history or recipe data.

6.2 Battery Replacement

For details on the screen saver function, refer to the following:

- Battery replacement procedure
  - 1) Open the battery cover.
  - 2) Pull out the battery with the specified tool (supplied).
  - 3) Remove the old battery from the holder.
  - 4) Install a new battery in the holder.
  - 5) Close the battery cover.

Battery status can be confirmed on a GOT utility screen. Be sure to purchase a new battery as needed as it self-discharges.

7. Notification of CE marking

The following conduits have been chosen compliant through direct testing to the following equipment:

Technical Conformity Assessment Procedure: Type EX.

For more details please consult the Important Electrical Safety Data Sheet.

1.1 Notes Regarding the use of GOT Units

1.1.1 General notes on the use of Communication Cables

- Equipment and connection diagram

- All units

- Connect the GOT with MITSUBISHI Electric Electric Wires only.

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- Connect the GOT with MITSUBISHI Electric Electric Wires only.

- Connect the GOT with MITSUBISHI Electric Electric Wires only.

1.1.2 Special notes on communication modules

For details on the screen saver function, refer to the following.

4.1 Control Panel Inside Dimensions for Mounting GOT

Mount the GOT onto the control panel while considering the following control panel dimensions:

- Width: 135(5.32”) mm (inch)
- Depth: 47(1.86”) mm (inch)
- Height: 24.4(0.96”) mm (inch)

4.2 Panel Cutting Dimensions

Note: This section is not comprehensive.

- Each section contains detailed information on the use of communication modules.

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- Each section contains detailed information on the use of communication modules.
GT1155-QTBD, GT1155-QSBD, GT1150-QLBD
GT11 General Description

This manual describes the front panels, rear sections, connection, and specifications of the GT11. Before reading the manual and manuals of various products fully to acquire proficiency in handling and operating the product, make sure to learn about the product's description, safety information, and precautions. Also, read the manuals in a safe place so that you can take them out and read them whenever necessary. Be sure to attend the training session provided by the company.

The company name and the product name to be described in this manual are the legible tradename or trademark of each company.

Effective: Jun, 2019
Specifications are subject to change without notice.

GOT1000 Series Connection Manual

1. Features

1.1 Improved monitoring performance and connectivity to FA devices

- Multiple languages are displayed using the iconography
- Various colors are used to display the real-time data

1.2 High-speed monitoring through high-speed serial communication at maximum 115,200bps

1.3 JOG/STOP switch and 1/3, 2/3, 3/3 screen processing

1.4 High-speed Ethernet and optional USB connection for high-speed data transmission

1.5 Fabrication environment and high precision

1.6 Expanded operation and function by using GOT Designer2 Screen Design Manual

1.7 Expansion by using GOT Designer2 Basic Edition, Screen Design Manual... (sold separately) *1

1.8 GT Designer2 Programming Command Manual

1.9 GT Designer3 Field Operation/Data Control Manual

1.10 Product manuals and handbooks

- Operation manual (sold separately) *1
- Operation manual (sold separately) *1

2.2 Back Panel

1) Frontier monitoring performance and connectivity to FA devices

2) Specification of various languages and colors are utilized

3) High-speed monitoring through high-speed serial communication at maximum 115,200bps

4) High-speed Ethernet and optional USB connection for high-speed data transmission

5) Fabrication environment and high precision

6) Expansion by using GOT Designer2 Screen Design Manual

7) Expansion by using GOT Designer2 Basic Edition, Screen Design Manual... (sold separately) *1

8) GT Designer2 Programming Command Manual

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3. Specifications

3.1 General Specifications

<table>
<thead>
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<th>Name</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Display screen</td>
<td>Change the settings in the four modes: contrast, color, resolution, and background color.</td>
</tr>
<tr>
<td>2</td>
<td>Battery cover</td>
<td>Open or close when replacing the battery.</td>
</tr>
<tr>
<td>3</td>
<td>CF card eject</td>
<td>Eject the CF card.</td>
</tr>
<tr>
<td>4</td>
<td>USB</td>
<td>For communicating with controller (PLC, microcomputer, etc) (D-sub 9-pin female)</td>
</tr>
<tr>
<td>5</td>
<td>CF card interface</td>
<td>- CF card interface is included as standard.</td>
</tr>
<tr>
<td>6</td>
<td>Battery</td>
<td>- High-speed monitoring through high-speed serial communication at maximum 115,200bps</td>
</tr>
<tr>
<td>7</td>
<td>Design Manual</td>
<td>- High-speed Ethernet and optional USB connection for high-speed data transmission</td>
</tr>
<tr>
<td>8</td>
<td>GOT Designer2</td>
<td>- Fabrication environment and high precision</td>
</tr>
<tr>
<td>9</td>
<td>Operation manual</td>
<td>- Expansion by using GOT Designer2 Screen Design Manual</td>
</tr>
</tbody>
</table>

3.2 Performance Specifications

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<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Display character</td>
<td>Change the settings in the four modes: contrast, color, resolution, and background color.</td>
</tr>
<tr>
<td>11</td>
<td>Display color</td>
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</tr>
<tr>
<td>12</td>
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<td>GOT Designer2</td>
<td>- Expansion by using GOT Designer2 Screen Design Manual</td>
</tr>
</tbody>
</table>

4.3 Mounting Position

4.2 Panel Cutting Dimensions

The panel thickness should be within 5mm.

External dimensions:

- GT1155-QSBD: 200mm (7.87") × 200mm (7.87") 
- GT1155-QTBD: 200mm (7.87") × 200mm (7.87")

File

- Panel: 164mm (6.46") × 164mm (6.46")
- Back cover: 164mm (6.46") × 164mm (6.46")

4.2.1 Selection of Mounting Hole

- Use 4 mounting holes with a specified diameter of 8mm or less.
- Ensure a minimum distance of 66mm between the holes to prevent damage.

5. Wiring

5.1 Power Supply Wiring

- Power supply voltage: 24VDC (+10% -15%), ripple voltage 200 mV or less
- Fuse (built-in, not exchangeable) 1.0A
- Input power supply voltage: 24VDC (+10% -15%), ripple voltage 200 mV or less

6. Maintenance and Inspection

6.1 Battery Replacement

- Battery capacity drops with age. Replace the battery if the display becomes dim or if the battery replacement alarm is activated.
- Use only the specified battery to ensure safe and stable operation.

4.3.1 Mounting Position

- The GOT will be fixed in 4 upper/mounting bolt (accessory).
- Use a cross wrench to tighten the mounting bolt and secure the GOT with the specified torque securely.

1) Independent ground

- Connect the ground terminal of the GOT to the mounting surface of the equipment.
- The ground should be connected to the metal frame of the equipment through a surge arrester.

5.4.1 Recessed Panel Mounting

- Use a cross wrench to tighten the mounting bolt and secure the GOT with the specified torque securely.

5.4.2 Panel Mounting

- Use 4 mounting holes with a specified diameter of 8mm or less.
- Ensure a minimum distance of 66mm between the holes to prevent damage.

7. Notification of CE marking

- The product is designed for use in industrial applications.
- The product is equipped with a CE marking to ensure compliance with European Union directives.

8. For safe use

- This product has been manufactured as a general-purpose product for general industrial use, and has been designed and manufactured in compliance with all applicable standards.
- Before using the product, read the user manual and familiarize yourself with all safety instructions and precautions.

Note: This section is valid only for China.