## 1. Specifications

### 1.1 General Specifications

**Specifications**

- **Power supply**: AC 100 V ± 10% (in-phase), 50/60 Hz (150mA/24VDC) or less, 3.7 VDC (310mA/12VDC) or less
- **Power consumption**: 3.6W (150mA/24VDC) or less, 1A (DC Input) or less
- **Display device type**: STN monochrome (blue/white)
- **Display angle**: Left/Right: 50 degrees, Top: 40 degrees, Bottom: 70 degrees
- **Display characters**: 16-dot standard font: 40 characters
- **Resolution**: Q:320 x 240, B:256 x 192, D:24VDC
- **Unit size**: H72(2.83) [mm] (inch) (Horizontal format)
- **Depth**: 24VDC (1.89inch) (3.93inch)
- **Weight**: 1.14 kg (2.51 lbs)
- **Vibration resistance**: 20g (E.95-329-5) (Horizontal: 1.1mm/s²)
- **Shock resistance**: 10g (E.95-329-5) (Horizontal: 1.1mm/s²)
- **Operating environment**: Temperature: -10°C to 50°C (50°F to 122°F), Humidity: 10% to 90% non-condensing
- **Storage environment**: Temperature: -20°C to 60°C (-4°F to 140°F), Humidity: 5% to 95% non-condensing
- **Display**
  - 16-dot standard font: 40 characters
- **External dimensions**
  - Front: 330 x 285 x 24 (mm)
  - Without mounting fixtures: 195 x 154 x 24 (mm)

**Related Notes**

- The GT1045-QSBD and GT1040-QBBD unit shown in EX.1 are used as an example to illustrate the procedures for drawing and transmitting data to the GOT1000 series.
- For details of a PLC to be connected, refer to the PLC user's manual respectively.
- Any device which utilizes a data communication function is susceptible to the electromagnetic interference which may occur as a result of using the contents noted in this manual.
- This product has been manufactured as a general-purpose part for general applications.

**Wiring Precautions**

- **Grounding**: Inside control panel

**Operation Precautions**

- **Alarm**: 2:3.7” x 8 dots

**MEMO**

- **Notes for compliance to EMC regulation**
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GT10 General Description

1. Specifications

1.1 General Specifications

- **Bundled Items**
  - GT10 unit
  - GOT1000 Series
  - Display device type
  - Power type
  - Display color
  - Resolution
  - Battery
  - Communication interface
  - Panel cut dimensions
  - Mounting dimensions
  - Mounting holes

**Specifications**

- Power supply voltage: 24V DC士10%
- Current consumption: 0.1A (max.)
- Operating current: 0.05A (max.)
- Max. allowed power: 2.4W
- Power supply terminals and earth
- Surge, RF conducted disturbances and Power supply noise
- Transient power supply rejection
- Temperature range: -10°C to 55°C
- Humidity range: 3% RH to 90% RH non-condensing
- Vibration resistance: 5G (3 axes)
- Shock resistance: 5G (3 axes)
- Rainproof and dustproof: Equivalent to IP67 (JEM1030) (front section)
- Environmental protective structure*3: Equivalent to IP67 (JEM1030) (front section)

**Bundled Items**

- GT10 unit
- GOT1000 Series
- Display device type
- Power type
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- Resolution
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2. Installation and connection

2.1 General notes on the use of communication cables

- For detailed GOT multidrop connection, refer to the following.
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3.0 General notes on the use of communication cables

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4. Maintenance and troubleshooting

- This product is designed to be used in a radiation environment.
- The system shall not be exposed to the impact exceeding the impact resistance of the equipment.
- When using the GOT in the environment of oil or chemicals, use the protective cover to protect the GOT.

5.0 Maintenance and troubleshooting

- This product is designed to be used in a radiation environment.
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6.0 Maintenance and troubleshooting

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**GT10 General Description**

**Manual Number** GT1040-QBBD

**Registration**

1.2 Performance Specifications

- Effective: Jun. 2019
- GT10 General Description (This manual) 1
- Incorrect operation of the touch switch(s) may lead to a serious accident if the
- Do not press the GOT display section with a pointed material as a pen or
- Run the above cables separately from such wiring and keep them a minimum
- The surge voltage withstand level for up to the raged voltage of 300 V is 2500 V.

**PERFORMANCE SPECIFICATIONS**

- Display device type
  - Screen size type: 0:Monochrome(black/white)
  - S:STN color
- Display character: 16-dot standard font: 40 characters
- Display color: 256 colors Monochrome (white/blue), 16 scales
- Contrast adjustment: 16-level adjustment
- Input power supply voltage: 24VDC (+10% -15%)
- Line voltage: 100V to 120V, 200V to 240V
- Buzzer output (a buzzer that sounds buzzer, alarm): Power consumption: 40mA
- Power consumption: 3.6W (150mA/24VDC) or less,
  - 3.6W (20mA/12VDC) or less

**APPLICATIONS**

- Application: PC communication (Project data upload/download, OS installation, transparent function)
- Application: SIM (Universal Integrated Circuit Card) card
- Application: Ethernet communication

**EMI/EMC SPECIFICATIONS**

- Compliance with all relevant aspects of the appropriate regulations
- List of the internationally required regulations
- List of the nationally required regulations

**REQUIREMENT FOR COMPLIANCE WITH EC DIRECTIVE (CE MARKING)**

- In pollution degree 2, only non-conductive pollution occurs but temporary conductivity may be produced due to condensation.
- The surge voltage withstand level for up to the raged voltage of 300 V is 2500 V.
- *1 The GOT continues to operate even upon 5ms or shorter instantaneous power failure.
- *2 When unplugging the cable connected to the unit, do not hold and pull the cable but twist and pull the connector end

**BUNDLED ITEMS**

- GT10-50FMB For connecting GT10-50FMB memory board
- Battery GT11-50BAT lithium battery
- Backup target (Clock data, alarm history and recipe data)

**TECHNICAL MAINTENANCE PRECAUTIONS**

- During maintenance operations, observe the following precautions to prevent damage to the GOT or other equipment.
- Use a screwdriver with proper tip size and do not apply excessive force.
- Do not touch contact points with a pen or other pointed material.
- When using GOT as a terminal device, connect the ground cable to the control panel.
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**SAFETY PRECAUTIONS**

- **Warning**: Before using the product, please read the manual and follow the instructions carefully. The user is responsible for proper use of the product.
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