CONNECTION BOX
GT16H-CNB-42S

USER'S MANUAL

Power Supply Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply voltage</td>
<td>24(±5%)V DC, 50/60Hz (Refer to the specifications shown in Table 10.1.)</td>
</tr>
<tr>
<td>Power input</td>
<td>Depends on the power supply voltage and current consumption of the Handy GOT.</td>
</tr>
<tr>
<td>Power consumption (supply power)</td>
<td>Depend on the Handy GOT model.</td>
</tr>
</tbody>
</table>

Connection Box Type

- GT16H-CNB-42S: GT16H-CNB-42S is the maximum voltage is 24VDC. |
- GT16H-CNB-42P: GT16H-CNB-42P is a maximum voltage is 24VAC. |
- GT16H-CNB-42F: GT16H-CNB-42F is a maximum voltage is 24VAC. |

Cautions

- Do not use the connection box in the marine environment. |
- Do not use the connection box in an environment where it will come in contact with water. |
- Do not use the connection box in an environment where the air temperature is below -20°C or above 85°C. |
- Do not use the connection box in an environment where the air humidity is above 90%. |
- Do not use the connection box in an environment where the shock and vibration are severe. |
- Do not use the connection box in an environment where the electrostatic discharge is severe. |
- Do not use the connection box in an environment where the electromagnetic interference is severe. |
- Do not use the connection box in an environment where the power supply is unstable. |
- Do not use the connection box in an environment where the power supply is unstable. |

Installation

- Before connecting the connection box to the Handy GOT, make sure that the Handy GOT is not turned on. |
- After connecting the connection box to the Handy GOT, make sure that the Handy GOT is turned on. |
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Certification of UL, cUL standards
UL, cUL standards are recognized in use by the following certification.
- UL1678 (UL1678) (Hazardous location verified) |
- UL685b (UL685b) (Hazardous location verified) |

General notes on power supply
- This product is designed for use in non-hazardous locations. |
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Cautions with ERG (CE Marking)
This product is not designed to be connected to the Handy GOT or the GT2000 Series Handy GOT. |
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Bundled Items

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>External cable (GT16H-C30-42P, GT16H-C60-42P, GT16H-C100-42P)</td>
<td>1 set</td>
</tr>
<tr>
<td>Screw (M3×6, M3×8)</td>
<td>2 sets</td>
</tr>
<tr>
<td>Terminal connector</td>
<td>1 set</td>
</tr>
<tr>
<td>Terminal block</td>
<td>1 set</td>
</tr>
</tbody>
</table>

Manual contents

<table>
<thead>
<tr>
<th>Manual name</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT2000 Series Handy GOT User’s Manual</td>
<td>Hardware configuration, external appearance, and installation method</td>
</tr>
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</table>

For safety use
- This product has been manufactured as a general purpose product for general use. |
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Appendix

For safe use
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For use with the Handy GOT
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**3. Power Supply Specifications**

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<tr>
<th>Item</th>
<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>Input power supply voltage</td>
<td>24VDC (+10% -15%)</td>
</tr>
<tr>
<td>Input power supply frequency</td>
<td>60Hz ±2Hz</td>
</tr>
<tr>
<td>Internal power supply current</td>
<td>24VDC 1.4A</td>
</tr>
<tr>
<td>Internal power supply power</td>
<td>32.4W (134mA/24V)</td>
</tr>
</tbody>
</table>

**4. Installation**

4.1 Mounting on the panel face

When setting the connector for Handy GT connection and the power supply switch on the panel surface

1. Mounting the power panel

   - Drill 5 holes of 6mm (0.23") in the panel face as shown in the figure opposite. Install the panel face with the screws (sold separately). Be sure to use the screws (sold separately) when you connect the panel face to the panel back. The screws are used for mounting the panel face to the panel back. The screws are not supplied with the panel face. (Panel opening) Panel cut area 2.95inch (75.0mm) × 2.21inch (55.9mm)

2. Mounting the panel face on the DIN rail

   - Mount the panel face on the DIN rail. The panel face can be mounted on the DIN rail in two directions, as shown in the figure opposite. The panel face can be mounted with a horizontal or vertical DIN rail.

3. Mounting on the D size connector panel

   - Mount the panel face on the DIN rail. The panel face can be mounted on the DIN rail in two directions, as shown in the figure opposite. The panel face can be mounted with a horizontal or vertical DIN rail.

**4.2 Mounting on the panel face (When installing the Connector Conversion Box on the panel surface)**

1. Mounting on the panel face

   - Mount the panel face on the panel face (mounting surface). Drill 4 holes on the panel face as follows. Tighten the screw with the specified torque. Tightening torque must be equal to or less than the specified torque. (: No.1-1.8Nm)

2. Mounting on the D size connector panel

   - Mount the panel face on the D size connector panel. The panel face can be mounted on the D size connector panel in two directions, as shown in the figure opposite. The panel face can be mounted with a horizontal or vertical DIN rail.

**5. Compliance with all relevant 2013/59/EU (EMC) and 2014/30/EU (LVD) Directives**

- The Connector Conversion Box complies with all relevant 2013/59/EU (EMC) and 2014/30/EU (LVD) Directives when used as a part of a Mitsubishi Electric PC-series GOT (either GT11H or GT14H) or a Mitsubishi Electric PC-series PLC (GT16H-CNB-42S) when used as a part of a Mitsubishi Electric PC-series PLC.

**6. Safety Precautions**

- For the safety of the user, any damage to the product may cause fire or the user may be injured. Therefore, be sure to follow the safety precautions.

- Be sure to use the Connector Conversion Box as shown in the figure opposite. Using the Connector Conversion Box in other than the figure opposite may cause fire or injury. Therefore, be sure to follow the safety precautions.

**7. Warning**

- The Connector Conversion Box should be mounted on the panel face (mounting surface). Be sure to use the Connector Conversion Box as shown in the figure opposite. Using the Connector Conversion Box in other than the figure opposite may cause fire or injury. Therefore, be sure to follow the safety precautions.
**Remark**

In any case, it is important to follow the directions for usage. The name and the external dimensions of each part of the Connector Conversion Power Supply Specifications product correctly. Before using this product, please read this manual and the relevant manuals. The product name to be described in this manual are the registered trademarks or trademarks.

**Marketing Precautions**

- This product is designed for use in industrial applications. Before using the product for special purposes such as nuclear power, electric power, aircraft, and transportation,请 contact Mitsubishi Electric Corporation. The product name to be described in this manual are the registered trademarks or trademarks.

**Design Precautions**

- The product fails, install appropriate backup or failsafe functions in the system. The system shall not cause failures in the unit. After transportation, verify the operations of the unit. Do not disassemble or modify the unit.

**Power Supply Specifications**

- The power supply voltage is 24V DC (±5%).
- The power consumption is 0.3W (max).
- The internal current is 2.5mA (max).
- The internal power source is 24V DC.
- The internal reliability is 10 years.

**Dimensions**

- Density: 0.5kg
- Dimensions: 85±0.5 (3.35”±0.02”) (H), 61±1,-0 (2.41”+0.04”,-0) (W), 4.3 Installed on the DIN rail

**WRONG PRECAUTIONS**

- This equipment is designed for use in industrial applications. The internal cable or the cable must be connected to the panel face. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**Correct wiring**

- When using the internal cable, contact Mitsubishi Electric Corporation for further information.

**Certification of UL, cUL standards**

- UL, cUL Standards are recognized by use in the following combination:
  - GT16H-CNBB (Hardware version) or cUL
  - GT16H-CNBB-1P, 2P, 3P, 4P (Software version) or cUL

**General notes on power supply**

- This equipment is designed for use in industrial applications. The use of special electrical equipment such as power supplies, power generation equipment, or control equipment may result in the system being unable to operate correctly. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**Connection to external devices**

- This equipment is designed for use in industrial applications. The use of special electrical equipment such as power supplies, power generation equipment, or control equipment may result in the system being unable to operate correctly. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**Power supply wiring, specifications, and installation**

- The power supply wiring, specifications, and installation must be performed by a qualified electrician. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**System wiring diagram**

- The system wiring diagram must be provided by Mitsubishi Electric Corporation. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**For safe use**

- This product has been manufactured as a general-purpose product for general use in industrial applications. The use of special electrical equipment such as power supplies, power generation equipment, or control equipment may result in the system being unable to operate correctly. For safe use, please refer to the instruction manual provided by Mitsubishi Electric Corporation. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**Supplied Bundled Items**

- The following notes are relevant to this product. When these notes are relevant, please consult with our local distributor.

**ENGLISH**

- This equipment is designed for use in industrial applications. The use of special electrical equipment such as power supplies, power generation equipment, or control equipment may result in the system being unable to operate correctly. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**User’s Manual**

- This equipment is designed for use in industrial applications. The use of special electrical equipment such as power supplies, power generation equipment, or control equipment may result in the system being unable to operate correctly. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**Safety Precautions**

- Before using the product, please read the manual and the relevant manuals. The product name to be described in this manual are the registered trademarks or trademarks.

**Precautions for use**

- This product is designed for use in industrial applications. The use of special electrical equipment such as power supplies, power generation equipment, or control equipment may result in the system being unable to operate correctly. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**Safety Precautions**

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**Technical Specifications**

- The technical specifications are subject to change without notice.

**User’s Manual**

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**Features**

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**Handy GOT User's Manual**

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**Dimensions**

- Internal cable: W85±0.5 (3.35”±0.02”) (H), 61±1,-0 (2.41”+0.04",-0) (W), 4.3 Installed on the DIN rail

**Notes for compliance to EMC regulation**

- This equipment is designed for use in industrial applications. The use of special electrical equipment such as power supplies, power generation equipment, or control equipment may result in the system being unable to operate correctly. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.

**Limited edition manual**

- This equipment is designed for use in industrial applications. The use of special electrical equipment such as power supplies, power generation equipment, or control equipment may result in the system being unable to operate correctly. The system shall not be used in areas where electrical shock, fire, or other dangerous situations may occur.