1. MOUNTING

1.1 Mounting Cautions

- This instrument is intended to be used under the following environmental conditions:
  - Indoor use:
    - Altitude up to 2000 m
  - Outdoor use:
    - Altitude: up to 2000 m
  - Temperature: 
    - Operating: -10 to 50 °C
    - Storage: -25 to 70 °C
  - Humidity: 5 to 95% RH (Absolute maximum: 90% RH)
  - Installation environment: Indoor use

- Avoid the following conditions when selecting the mounting location:
  - Rapid changes in ambient temperature which may cause condensation.
  - Corrosive condition of flue gases.
  - Direct vibration or shock to the mainframe.
  - Water, oil, chemicals, vapor or steam splashes.
  - Excessive dust, salt or particle-laden air.
  - Excessive induction noise, static electricity, magnetic fields or noise.
  - Direct air from an air conditioner.

- Ensure that the instrument is not exposed to shock, fire or damage to instrument and equipment.
- Do not mount this instrument directly above equipment that generates large amounts of heat.
- Deformation or discoloration will occur. Use a soft, dry cloth to remove stains from the instrument.

1.2 Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3 pin 3</td>
<td>10.5</td>
</tr>
<tr>
<td>M3 pin 4</td>
<td>3</td>
</tr>
<tr>
<td>M4 pin 5</td>
<td>3</td>
</tr>
<tr>
<td>M5 pin 6</td>
<td>3</td>
</tr>
</tbody>
</table>

2. WIRING

2.1 Wiring Cautions

- To avoid noise induction, keep communication signal wire away from instrument power supply lines, control lines, and power lines of other electrical devices.
- Do not connect fuses or switches to the noise filter output wiring as this will reduce the effectiveness of the noise filter.

2.2 Terminal Configuration

- A fuse (rated current: 5 A) is installed inside the terminal box.
- If the instrument will not turn on even after it has been powered on, check the fuse.
- Contact RKC sales office or the agent.

2.3 Pin Layout of Connector

- COM PORT 1: Connector for PLC or Host computer connection based on RS-422/RS-485 (Specify when ordering).
- COM PORT 2: Connector for PLC, Host computer or COM-JE connection based on RS-422A.
- COM PORT 3: Connector for COM-JE extension based on RS-422A.
2.5 Wiring to Host Computer

- **RS-422A**
  - Use a D-SUB 9P connector.
  - The signal polarity A and B may be reversed between the computer link unit and the COM-JE. Normally signal A of a certain device is connected to signal A of the other device, and so for B to B. However, in this case, signal polarity A should be connected to B and the polarity B to A.

- **OMRON SYM/MC series**
  - The signal polarity A and B may be reversed between the computer link unit and the COM-JE. Normally signal A of a certain device is connected to signal A of the other device, and so for B to B. However, in this case, signal polarity A should be connected to B and the polarity B to A.

- **RS-232C**
  - Use a D-SUB 9P connector.
  - The signal polarity A and B may be reversed between the computer link unit and the COM-JE. Normally signal A of a certain device is connected to signal A of the other device, and so for B to B. However, in this case, signal polarity A should be connected to B and the polarity B to A.

2.6 Multiple COM-JE connections

- **COM-PORT2 and COM-PORT3** are connectors for multi-drop connection of the COM-JE. For COM-JE extension, connect COM-PORT2 to COM-PORT3 of the COM-JE for extension.
  - For wiring example, refer to the COM-JE [For RB Series] Instruction Manual (MR01Y41-E).
  - The diagram shows the connection of COM-JE to COM-PORT2 or COM-PORT3.

2.7 Wiring to the Controllers

Conduct wiring between the COM-JE and controller (RB100/400/500/S0700/5000) as shown in the following.

- **RS-422A**
  - Use a D-SUB 9P connector.
  - The diagram shows the connection of COM-JE to COM-PORT2 or COM-PORT3.

4. MODEL CODE

COM-JE [G] 03

- **(1)** Communication interface (COM-PORT1)
  1. RS-232C
  2. RS-422A

- **(2)** Corresponding to the RKC controller
  03. RB100/400/500/S0700/5000

3. SPECIFICATIONS

- **PLC communication**
  - Interface: Based on RS-422A, RS-485, HD-485, etc.
  - Protocol: HD-485 protocol
  - Communication speed: 19200 bps

- **S.D.S.**
  - Maximum connections: 31 controllers (RB100/400/500/700)

- **Safety**
  - Conform to the RKC product.