Thank you for purchasing the CX2000. This manual contains simple explanations about how to install and connect the CX2000. For more information about the procedures described herein, safety precautions, and the CX2000 functions and operation, please refer to the CX2000 User’s Manual.

**Installation Procedure**

1. Cut the instrument panel according to the diagram below. Panel Cut Diagram

2. Insert the CX2000 into the front of the panel.

3. Using the mounting brackets, attach the CX2000 to the panel as shown in the following figure.

**Connection Types and Procedures**

There are various terminals and connectors on the rear panel of the CX2000. Connecting them to peripheral devices allows you to perform control and measurement operations. Below are the names of each connector and terminal, as well as connection procedures.

**Connecting the Ethernet Interface**

- When only Connecting to a Hub
  - Connect the CX2000 and the PC through a HUB as shown in the following figure.

- When Connecting to a Preexisting Network
  - The following figure illustrates an example in which the CX2000 and a PC are connected to the network. When connecting the CX2000 or the PC to a preexisting network such things as the transfer rate and connector type must match. For details, consult your system or network administrator.

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>Signal Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RXD</td>
<td>Input signal.</td>
</tr>
<tr>
<td>2</td>
<td>TXD</td>
<td>Output signal.</td>
</tr>
<tr>
<td>3</td>
<td>RXD</td>
<td>Input signal.</td>
</tr>
<tr>
<td>4</td>
<td>TXD</td>
<td>Output signal.</td>
</tr>
</tbody>
</table>

**Connecting the Serial Interface**

- RS-232 (When Connecting to a Computer or Other Such Devices)
  - Verify that the CX2000 has an RS-232 connector, and then connect a serial cable to it. Connect the other end of the serial cable to the other device.

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>Signal Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>R (Received Data)</td>
<td>Received data from the connected device. Input signal.</td>
</tr>
<tr>
<td>3</td>
<td>S (Send Data)</td>
<td>Send data to the connected device. Output signal.</td>
</tr>
<tr>
<td>5</td>
<td>SG (Signal Ground)</td>
<td>Signal ground.</td>
</tr>
<tr>
<td>7</td>
<td>R (Request to Send)</td>
<td>Handshaking signal used when receiving data from the connected device. Output signal.</td>
</tr>
<tr>
<td>8</td>
<td>C (Clear to Send)</td>
<td>Handshaking signal used when sending data to the connected device. Input signal.</td>
</tr>
</tbody>
</table>

**Connecting the Power Supply**

- With an RS-422/485
  - The CX2000 has an RS-422/485 connector, and then connect the crimp connectors (for 4-mm screws) to the terminal strip as illustrated on the right. Do not expose more than 5 cm of the cable surface from the shield.

- With an RS-232
  - When using electrical wiring, be certain to follow the safety recommendations prescribed in the CX2000 User’s Manual.

  - Use a power supply that meets the following conditions:
    - Rated supply voltage: 100 to 240 VAC
    - Rated supply voltage frequency: 50/60 Hz
    - Maximum power consumption: 75 VA (100 V), 106 VA (240 V)

  - 1. Turn OFF the CX2000 and open the cover (transparent) for the power supply wires.
  - 2. Connect the power cord and the protective ground cord to the power supply terminals.
  - 3. Close the cover (transparent) for the power supply wires and secure it in place with screws.

**Connecting Input/Output Connectors**

- When connecting various input/output connectors for control or measurement, proceed as described below.

  1. Turn off the CX2000 and remove the terminal cover.
  2. Connect the crimp connectors (for 4-mm screws) to the terminal strip.
  3. Attach the terminal cover and secure it with the screws.

- Measurement input terminal block (CH1 to 10)
- Control input terminal block (loops 1, 2, 3, 4, 5, and 6)
- Measurement input terminal block (CH11 to 20)