



CX2000 Installation and Connection Guide

IM 04L31A01-71E 4th Edition



Yokogawa Electric Corporation

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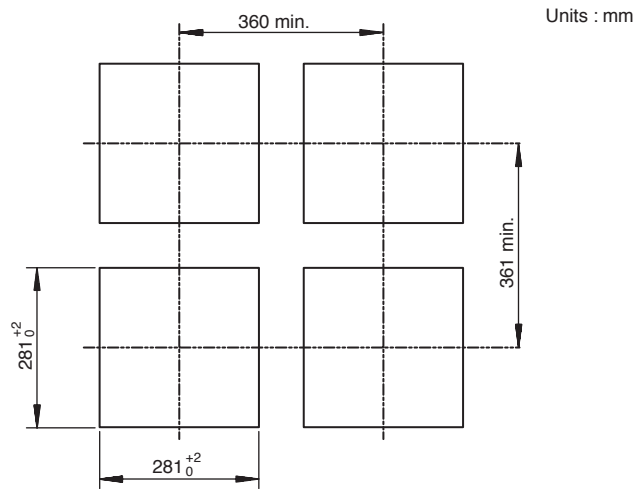
Thank you for purchasing the CX2000.

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 PDF manual found on the provided CD-ROM.

Installation Procedure

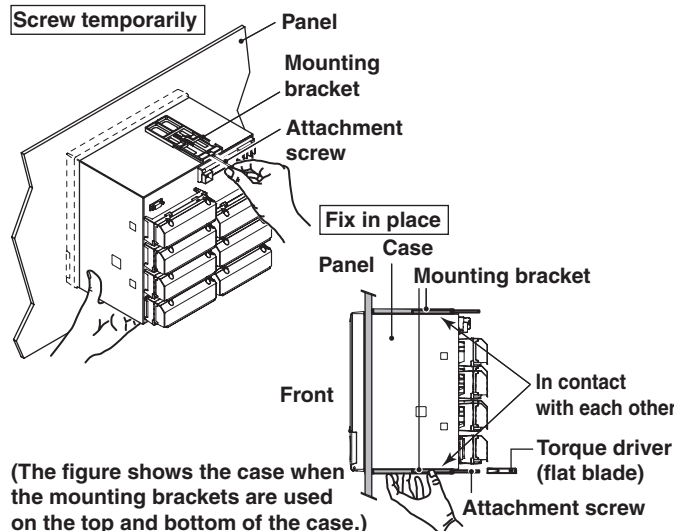
1. Cut the instrument panel according to the diagram below.

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.

First, attach the two mounting brackets and temporarily fasten the attachment screws. Next, fix the CX2000 in place by tightening the attachment screws with the appropriate torque (0.7 to 0.9 N·m.). As you fasten the screws, press the mounting bracket against the case so that they are in contact with each other.



For details about the CX2000 external dimensions, installation environment, and more, please refer to the CX2000 User's Manual (IM 04L31A01-01E) found on the provided CD-ROM.

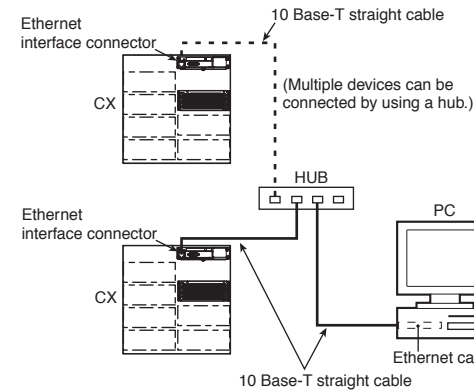
Connection Types and Procedures

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

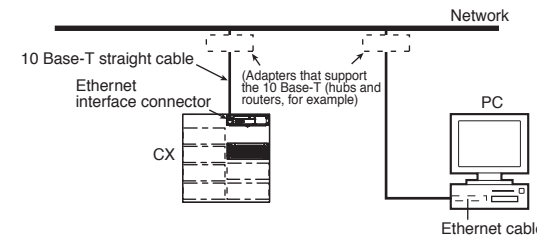
When only Connecting to a Hub

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.

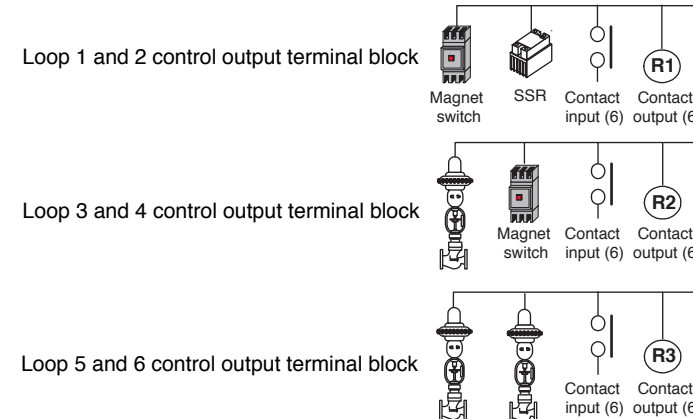


Connecting a Monitor to the VGA Output Terminal

(Option /D5)

Supported monitors: VGA monitors and multisync monitors with VGA display capability.

1. Turn off the CX2000 and the monitor.
2. Connect the CX2000 and the monitor using an analog RGB cable (D-Sub connector).
3. Turn on the CX2000 and the monitor. The screen of the CX2000 is displayed on the monitor.

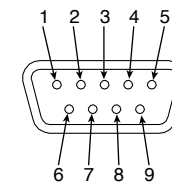


Option terminal block (Options /A6, /A4F, /A4FR, /A6R, /CST1, and /TPS4)

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.

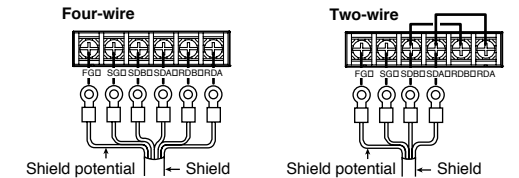


Pin No.	Signal Name	Signal Meaning
2	RD (Received Data)	Received data from the connected device. Input signal.
3	SD (Send Data)	Send data to the connected device. Output signal.
5	SG (Signal Ground)	Signal ground.
7	RS (Request to Send)	Handshaking signal used when receiving data from the connected device. Output signal.
8	CS (Clear to Send)	Handshaking signal used when sending data to the connected device. Input signal.

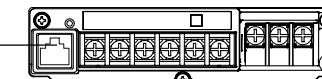
* Pins 1, 4, 6, and 9 are not used.

RS-422/485 (When Connecting to a PLC, Temperature Controller or Other Such Devices)

Verify that 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.

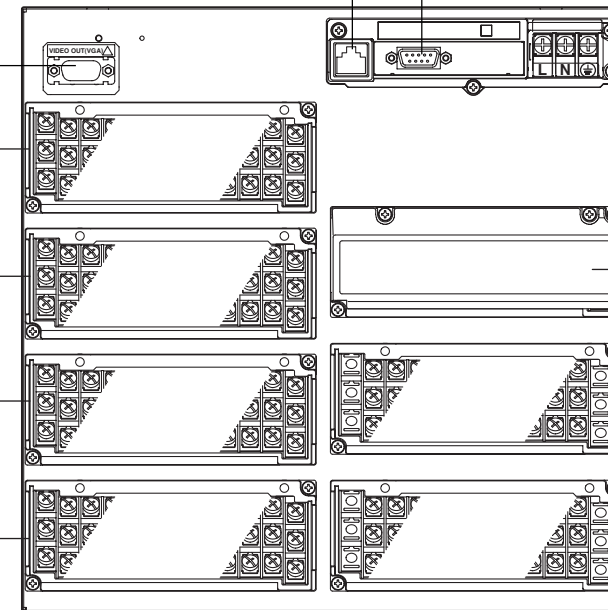


With an RS-422/485



CX2000 Rear Panel

With an RS-232



Connecting Input/Output Connectors

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

Connect the crimp connectors (for 4-mm screws) to the terminal strip.

1. Turn off the CX2000 and remove the terminal cover.
 2. Wire the signal wires to the terminals.
- Attach the terminal cover and secure it with the screws.

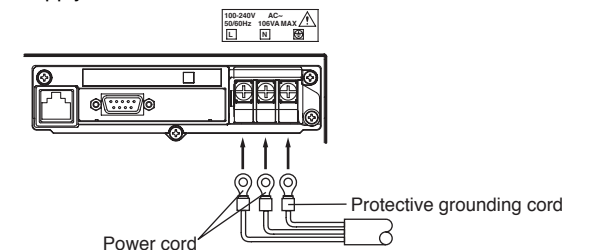
Connecting the Power Supply

⚠ 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
- Supply voltage range used: 90 to 132, 180 to 264 VAC
- Rated supply voltage frequency: 50/60 Hz
- Permitted supply voltage frequency range: 50/60 Hz ± 2%
- 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.

For the power supply specifications and connection method of the 24VDC/AC power supply option, please refer to the CX2000 User's Manual.

