2.4 System Requirements

- For the installation procedure of the driver, refer to the following manual.

4. Connecting Procedure

1) Insert the FJ-USB-AW driver into the USB port of the personal computer. (USB-AW)
2) Connect the FJ-USB-AW to the personal computer with the USB cable.
3) Plug in the power supply. (Only in Windows 98, Windows Me, Windows 2000 or Windows XP)
4) Turn the FJ-USB-AW ON.

5. Driver Installation

- Please connect the USB cable to the personal computer. Install USB driver software of the FJ-USB-AW, with your local Mitsubishi Electric sales site.

6. Confirmation of Installation

- Please confirm whether the installation is performed normally after the installation. (Please refer to the installation manual or refer to the following manual.)

7. Uninstalling Driver

For the uninstallation of the driver, refer to the following manual.

8. Caution on Use

- As a precautionary measure, before modifying or disrupting the program in operation or running the PLC, install again.

2.2 Performance Specifications of FX-USB-AW

- Current consumption: 0.5 W (at 5 V DC supplied from the personal computer) or 1 W (at 24 V DC supplied from the personal computer)
- Signal name: USB (Mini-B plug male)
- Power supply: USB (Mini-B plug male)

4. Connecting Procedure

1) Insert the FJ-USB-AW driver into the USB port of the personal computer. (USB-AW)
2) Connect the FJ-USB-AW to the personal computer with the USB cable.
3) Plug in the power supply. (Only in Windows 98, Windows Me, Windows 2000 or Windows XP)
4) Turn the FJ-USB-AW ON.

5. Driver Installation

- Please connect the USB cable to the personal computer. Install USB driver software of the FJ-USB-AW, with your local Mitsubishi Electric sales site.

6. Confirmation of Installation

- Please confirm whether the installation is performed normally after the installation. (Please refer to the installation manual or refer to the following manual.)

7. Uninstalling Driver

For the uninstallation of the driver, refer to the following manual.

8. Caution on Use

- As a precautionary measure, before modifying or disrupting the program in operation or running the PLC, install again.
The FX-USB-AW is a RS-422/USB conversion interface unit to connect the FX series PLC to a personal computer with USB ports. The driver is not installed properly when the process is canceled during installation. Before modifying or disrupting the program in operation or running the PLC, shut down the power supply of the PLC (including emergency stopping of the machine) and make sure that all line power is supplied to the PLC. For more details please contact the local Mitsubishi Electric sales site.

1. Outline

For FX-USB-AW, a USB connection interface unit is connected for the FX series PLC to a personal computer with USB ports.

1.1. Equipment to Use

- A personal computer
- USB cable
- FX-USB-AW

1.2. External Dimensions and Part Names

- FX-USB-AW (Main unit)
- 5V DC power supply from the personal computer

2. Specifications

**CAUTION**
- Make sure to follow all precautionary measures.
- Do not use the product in areas with excessive dust, oily smoke, conductive dusts, high-humidity locations (i.e., the vicinity of water or direct exposure to rain), or extreme temperature and humidity conditions. Doing so may cause fire, equipment failures, or malfunctions.

**NOTICE**
- When using Windows XP, Windows 2000 included in the USB driver software Ver. 1.70.
- For the installation procedures of the driver, refer to Chapter 5.
- Please refer to the applicable USB driver for Windows XP, Windows 2000 included in the USB driver software Ver. 1.70.
- When using Windows Millennium Edition (Me) and Windows 2000 versions 3.30 or later, the communication port setting can be selected from COM1-COM9. For versions 4.30 or later, the communication port setting can be selected from COM1-COM9.
- The driver is not installed properly when the process is canceled during installation. Before modifying or disrupting the program in operation or running the PLC, shut down the power supply of the PLC (including emergency stopping of the machine) and make sure that all line power is supplied to the PLC. If communication cannot be established between the PLC (as well as a positioning controller) and the personal computer, consult with a representative of Mitsubishi Electric.

3. System Configuration

Connected equipment and connected cable

- PLC
- Personal computer
- USB driver interface

4. Connecting Procedure

4.1 Installation

4.1.1 Connection of the USB connector to the PLC

4.1.2 Connection of the USB connector to the personal computer

5. Driver Installation

Install the USB driver for the personal computer. Install USB driver for the USB software, used with your local Mitsubishi Electric sales representative.

6. Confirmation of Installation

Before installing or running the program in operation or running the PLC, confirm that the connection is normal, and shut the power supply of the PLC (including emergency stopping of the machine) and make sure that all line power is supplied to the PLC.

7. Uninstalling Driver

8. Caution on Use

- Do not use the product in areas with excessive dust, oily smoke, conductive dusts, high-humidity locations (i.e., the vicinity of water or direct exposure to rain), or extreme temperature and humidity conditions. Doing so may cause fire, equipment failures, or malfunctions.
- Do not disassemble the product. Internal wires, component parts, etc., are exposed, which may cause fire, equipment failures, or malfunctions.
- Do not electrostatic charge or apply an electric current to the product. Doing so may cause fire, equipment failures, or malfunctions.
- Do not use the product in the vicinity of water or under direct exposure to rain. Doing so may cause fire, equipment failures, or malfunctions.
- Do not use the product in an environment with high humidity or condensation. Doing so may cause fire, equipment failures, or malfunctions.
- Do not use the product in the vicinity of a magnetic field. Doing so may cause fire, equipment failures, or malfunctions.
- Do not use the product in a location with an electromagnetic interference (EMI). Doing so may cause fire, equipment failures, or malfunctions.
- Do not use the product in a location with vibration shock. Doing so may cause fire, equipment failures, or malfunctions.
- Do not use the product in a location with an electric shock. Doing so may cause fire, equipment failures, or malfunctions.
- Do not use the product in a location with a high frequency electromagnetic wave. Doing so may cause fire, equipment failures, or malfunctions.
- Do not use the product in a location with a radio-frequency electromagnetic field. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in areas with excessive dust, oily smoke, conductive dusts, high-humidity locations (i.e., the vicinity of water or direct exposure to rain), or extreme temperature and humidity conditions. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in an environment with high humidity or condensation. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in the vicinity of water or under direct exposure to rain. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in an environment with high frequency electromagnetic wave. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in a location with a high frequency electromagnetic field. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in an environment with a magnetic field. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in a location with an electric shock. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in a location with excessive dust, oily smoke, conductive dusts, high-humidity locations (i.e., the vicinity of water or direct exposure to rain), or extreme temperature and humidity conditions. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in an environment with high humidity or condensation. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in the vicinity of water or under direct exposure to rain. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in an environment with high frequency electromagnetic wave. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in a location with a high frequency electromagnetic field. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in an environment with a magnetic field. Doing so may cause fire, equipment failures, or malfunctions.
- Never use the product in a location with an electric shock. Doing so may cause fire, equipment failures, or malfunctions.

9. Troubleshooting

- Please refer to the applicable USB driver for Windows XP, Windows 2000 included in the USB driver software Ver. 1.70.
- For versions 3.30 or later, the communication port setting can be selected from COM1-COM9. For versions 4.30 or later, the communication port setting can be selected from COM1-COM9.
- The driver is not installed properly when the process is canceled during installation. Before modifying or disrupting the program in operation or running the PLC, shut down the power supply of the PLC (including emergency stopping of the machine) and make sure that all line power is supplied to the PLC. If communication cannot be established between the PLC (as well as a positioning controller) and the personal computer, consult with a representative of Mitsubishi Electric.

10. Maintenance

11. Warranty

12. Product Information

13. Contact Information

For more details please contact the local Mitsubishi Electric sales site.
Please install the driver with the following procedure.

1. Outline


2. Specifications

- The USB driver is required to connect the PLC and personal computer.
- The USB driver software begins installation, and ends automatically.
- The 5 V DC power supply from the personal computer is necessary.
- The USB connector of personal computer
- The 5 V DC power supply from the personal computer
- The personal computer

4. Connecting Procedure

1. Before starting the installation, connect the USB cable to the USB port.