1. Outline of Product

The FX2NC-485ADP is a 485ADP adapter and can be used with the FX Series PLC. When connected to the FX Series PLC, it is used to exchange data between two FX Series PLCs.

2. Communication Functions and Applicable PLC

Communication type: FX, FBS, FC, FBD

3. Terminal configuration and recommended screwdriver

Terminal configuration: The terminal configuration can be found in the instruction manual for the FX5 series PLC.

4. Outside dimensions and Part Numbers

5. Inside dimensions

For safe use

- Do not install this product in environments specified by Mitsubishi Electric Corporation.
- Do not install this product in environments specified by Mitsubishi Electric Corporation.
- Do not install this product in environments specified by Mitsubishi Electric Corporation.
- Do not install this product in environments specified by Mitsubishi Electric Corporation.

Warranty

Mitsubishi Electric Corporation and their subsidiaries do not assume any responsibility for any accidents, damages, or failures caused by failure or malfunction of this product, loss of data, or any other accidents, losses, or damage caused by the use of this product. Mitsubishi Electric Corporation shall not be held liable for any damage or loss caused by the use of this product. Mitsubishi Electric Corporation shall not be held liable for any damage or loss caused by the use of this product. Mitsubishi Electric Corporation shall not be held liable for any damage or loss caused by the use of this product.

For the use of this product, please consult the instruction manual for the FX Series PLC.
4. Product Specification

4.1 Specification

All of FX 2NC-485ADP specifications from the Mitsubishi are equivalent to those of the PLC main unit.

<table>
<thead>
<tr>
<th>Specification</th>
<th>FX2NC-485ADP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply voltage (V)</td>
<td>485ADP(0.3V)</td>
</tr>
<tr>
<td>Transmission line voltage (V)</td>
<td>485ADP(0.3V)</td>
</tr>
<tr>
<td>Maximum load current (A)</td>
<td>485ADP(0.3V)</td>
</tr>
<tr>
<td>Maximum load current (A)</td>
<td>485ADP(0.3V)</td>
</tr>
<tr>
<td>Transmission capacity (kbps)</td>
<td>485ADP(0.3V)</td>
</tr>
<tr>
<td>Communication method</td>
<td>485ADP(0.3V)</td>
</tr>
</tbody>
</table>

4.2 Outside Dimensions and Part Names

- **Terminals**: Numbers, functions, and illustrations are shown for the terminals.
- **Tab**: Numbers, functions, and illustrations are shown for the tab.
- **Board**: Numbers, functions, and illustrations are shown for the board.
- **485ADP**: Numbers, functions, and illustrations are shown for the 485ADP.
- **Mounting**: Numbers, functions, and illustrations are shown for the mounting.
- **Panel**: Numbers, functions, and illustrations are shown for the panel.

3. Installation

**Caution**
- Use in the environments specified under the general specification in the manual.
- Do not use the product in environments with excessive or condensation dust, corrosive gas, steam, oil, water, moisture, or excessive heat, such as suction, exhaust, and motor drive, regular input/output signals or excessive vibration, etc.
- If it is used in electrical shock, fire, malfunction, damage, or destruction, the product may fail.
- Make sure to order the power cord for the product before installing the product.
- The equipment, electrical shock, or damage to the product may occur.
- Never connect new boards or modules into the main unit when driving a system or performing wiring; they may cause fires, breakdowns, or malfunctions.
- Ensure that the 485ADP is installed in the designated port.
- Further information can be found in the associated safety guidelines for the user and protection of property damage.

3.2 How to Install to Panel Face

1. Connect the 485ADP-485ADP to the PLC unit position. (From the FX series PLC)
2. Connect the 485ADP-485ADP to the PLC unit position. (From the FX series PLC)
3. Connect the 485ADP-485ADP to the PLC unit position. (From the FX series PLC)

4. Terminal configuration and recommended screwdriver

The terminal configuration of the 485ADP and the 485ADP is shown below.

<table>
<thead>
<tr>
<th>Signal name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>TXD+</td>
<td>SDA</td>
</tr>
<tr>
<td>TXD-</td>
<td>SCL</td>
</tr>
<tr>
<td>RXD</td>
<td>SDA</td>
</tr>
<tr>
<td>RXD</td>
<td>SCL</td>
</tr>
<tr>
<td>GND</td>
<td>GND</td>
</tr>
</tbody>
</table>

Recommended screwdriver to tighten terminal screws:

- Phillips Pozidriv screwdriver (PH1)
- Torx screwdriver (TX1)
- Allen wrench (0.8 mm)

For safe use

- Use the product in environments specified in the manual.
- Do not use the product in environments with excessive or condensation dust, corrosive gas, steam, oil, water, moisture, or excessive heat, such as suction, exhaust, and motor drive, regular input/output signals or excessive vibration, etc.
- If it is used in electrical shock, fire, malfunction, damage, or destruction, the product may fail.
- Make sure to order the power cord for the product before installing the product.
- The equipment, electrical shock, or damage to the product may occur.
- Never connect new boards or modules into the main unit when driving a system or performing wiring; they may cause fires, breakdowns, or malfunctions.
- Ensure that the 485ADP is installed in the designated port.
- Further information can be found in the associated safety guidelines for the user and protection of property damage.

Warranty

Mitsubishi Electric Corporation is not liable for damage caused by factors not found to be the cause of Mitsubishi’s responsibility, non-performance, or defects found in the products manufactured under Mitsubishi’s specification. Mitsubishi Electric Corporation is not liable for damage caused to products other than the Mitsubishi products, and this shall be the sole responsibility of the user.

For use in environments specified in the manual.

- Use in the environments specified under the general specification in the manual.
- Do not use the product in environments with excessive or condensation dust, corrosive gas, steam, oil, water, moisture, or excessive heat, such as suction, exhaust, and motor drive, regular input/output signals or excessive vibration, etc.
- If it is used in electrical shock, fire, malfunction, damage, or destruction, the product may fail.
- Make sure to order the power cord for the product before installing the product.
- The equipment, electrical shock, or damage to the product may occur.
- Never connect new boards or modules into the main unit when driving a system or performing wiring; they may cause fires, breakdowns, or malfunctions.
- Ensure that the 485ADP is installed in the designated port.
- Further information can be found in the associated safety guidelines for the user and protection of property damage.

This product is designed and manufactured underichi quality control. However, it may be damaged if it is used in environments specified in the manual.

Mitsubishi Electric Corporation is not liable for damage caused by factors not found to be the cause of Mitsubishi’s responsibility, non-performance, or defects found in the products manufactured under Mitsubishi’s specification. Mitsubishi Electric Corporation is not liable for damage caused to products other than the Mitsubishi products, and this shall be the sole responsibility of the user.
1. Outline of Product

The 485ADP is an insulated RS-485 communication adapter with an European type terminal block. Connected to the main unit of the FX Series PLC, it enables signal exchange between the PLC and equipment connected on the RS-485 interface.

2. Communication Functions and Applicable PLC

(Available in indicated version or later)

<table>
<thead>
<tr>
<th>Communication type</th>
<th>FX Series PLC</th>
<th>FX2N</th>
<th>FX3G</th>
<th>FX3U</th>
</tr>
</thead>
<tbody>
<tr>
<td>N:N network</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parallel link</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N:N network, Parallel link</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Installation

**Cautions**

- Use in the environments specified under the general specification in the manual.
- Do not use the product in environments with excessive or conductive dust, corrosion in flammable gas, fume, etc., moisture, radiation, or any environment that does not conform to specifications. Regular inspections or maintenance should not be performed while removing the front cover or using the product.
- Make sure to cut-off the power outside the product before installing or removing the product. Incomplete installation or connection of the product, installation, improper electrical connection, or serious damage to the RS-485 port of the product due to the installation, will cause serious damage or personal injury.
- New chip may overheat or be damaged while inserting into the socket when the socket is already in use, as well as during insertion. If the product is damaged during insertion, it will not work properly.
- After removing the in-built cable of the 485ADP, use the product

3.2 How to install to Panel Face

- Direct installation to the face panel directly (Select the pull-out type 2 to release 2 of a screw (M6) with a spring washer, and a flat washer in the panel hole) Mounting diagram 27 to 32 diagram
- For the flat position and mounting of mounting holes, refer to the external dimensions

4. Product Specification

4.1 Specification

- All specifications from the manual are equivalent to those of the PLC main unit.

4.2 Outside Dimensions and Part Names