1. 3 External Dimensions and Part Names

- Special adapter connector cover

Special adapter connector cover is removed

<table>
<thead>
<tr>
<th>Attachment</th>
<th>Model No.</th>
<th>Function</th>
<th>485ADP-MB</th>
<th>485ADP-MB/RS</th>
<th>485ADP-MB/MT</th>
</tr>
</thead>
<tbody>
<tr>
<td>485ADP-MB</td>
<td>JY997D26301H</td>
<td>Power: green, RUN: red, SD: red</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>485ADP-MB/RS</td>
<td>JY997D26301S</td>
<td>Power: green, RUN: red, SD: red</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>485ADP-MB/MT</td>
<td>JY997D26301F</td>
<td>Power: green, RUN: red, SD: red</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>485ADP-MB/MT-485ADP-MB</td>
<td>JY997D26301G</td>
<td>Power: green, RUN: red, SD: red</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

2. 4.5 (0.18”) (mounting screw: M4 screw)

3. Use of communication special adapters

- Using two communication special adapters

4. Wiring

For wiring details, refer to the following manual:

5. Specifications

- Communication port channels are automatically allocated. The communication special adapter closer to the main unit is ch1.

6. Power Supply Specification

- DC 24 V power is supplied from the external power supply unit of main unit.

7. 4.5 Performance Specification

- The version number can be checked by monitoring D8001/D8101, as well the last three digits of the D-Reset setting (setting no. 68).

8. 4.6 MODEBUS Serial Communication Edition

- FX3U Series PLC

- FX3U-485ADP-MB

- FX3U-485ADP-MB/RS

- FX3U-485ADP-MB/MT

- FX3U-485ADP-MB/MT-485ADP-MB

- FX3U-485ADP-MB/MT-485ADP-MB/RS

- FX3U-485ADP-MB/MT-485ADP-MB/MT

9. 5.4 Performance Specification

- FX3U Series PLC

- FX3U Message Setting

- FX3U-485ADP-MB

- FX3U-485ADP-MB/RS

- FX3U-485ADP-MB/MT

- FX3U-485ADP-MB/MT-485ADP-MB

- FX3U-485ADP-MB/MT-485ADP-MB/RS

- FX3U-485ADP-MB/MT-485ADP-MB/MT

10. 5.5 Communication Specifications

- Communication port channels are automatically allocated. The communication special adapter closer to the main unit is ch1.

11. WARNING

- Make sure to check all of the power supply wiring before applying power. Failure to do so may result in electric shock or damage to the product.

12. CAUTION

- Make sure to check all of the power supply wiring before applying power. Failure to do so may result in electric shock or damage to the product.

13. COMPLIANCES

- This product fulfills the above-mentioned technical regulations with respect to electromagnetic emissions and immunity.

14. 1.4 Operation of Terminal Resistor Switch Selector

- Use the tip of tweezers, tip of mechanical pencil, or minute screwdriver, or the last tool whose tip size is at least 0.6 mm (0.02") when operating the terminal resistor selector switch.

15. PRECAUTIONS

- The version number can be checked by monitoring D8001/D8101, as well the last three digits of the D-Reset setting (setting no. 68).

16. General Specifications

- FX3U Series PLC

- FX3U Message Setting

- FX3U-485ADP-MB

- FX3U-485ADP-MB/RS

- FX3U-485ADP-MB/MT

- FX3U-485ADP-MB/MT-485ADP-MB

- FX3U-485ADP-MB/MT-485ADP-MB/RS

- FX3U-485ADP-MB/MT-485ADP-MB/MT

17. POWER LED (green): Lit while 5 V DC power is supplied from main unit.

18. Wiring Precautions

- Do not attach the terminal block replacement function terminal (terminal) for the main unit to the main unit. If attached as off and left unused, the terminal configuration becomes invalid, making control impossible.

19. WARNING

- Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may arise from the use of this product.

20. WARNING

- Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may arise from the use of this product.
1. Outline

The FX3U-485ADP-MB communication special adapter (hereafter called FX3U-485ADP-MB) is a programmable controller (PLC) special adapter between the PLC and RS-485 devices. This adapter facilitates preliminary configuration and commissioning that is available with the FXU-485ADP-MB that supports the communication environment available.
**Installation Manual**

**FX3U-485ADP-MB**

**3. Installation**

For connection/wiring details, refer to the respective PLC User’s Manual.

---

**1. Outline**

The FX3U-485ADP-MB communication special adapter (hereafter called 485ADP-MB) is a functionally complete communication special adapter that is available with the FX3U-485-BD communication special adapter.

**1.1 Communication Function**

- **Communication port channels**: Automatically allocated. The communication channel is specified using the bus or network name assigned by the PLC user's manual.

- **Connection method**: Compatible with the RS-485 standard. Any number of peripherals can be connected in half-duplex mode.

**1.2 Component Descriptions**

- **Main unit**: FX3U series PLC. Use FX3U series PLCs to connect with the 485ADP-MB communication special adapter.

- **Special adapter**: FX3U-CNV-ADP, 485ADP-MB. Use with FX3U series PLCs and the 485ADP-MB communication special adapter.

**2. Compatibility**

The FX3U-485ADP-MB is compatible with the following models:

- **FX3G/FX3GC/FX3U/FX3UC Series**
- **FX3S/FX3G/FX3GC/FX3U/FX3UC Series**
- **FX3G Series PLC**
- **FX3S Series PLC Ver. 1.00 or later**

**3. Wiring**

For wiring details, refer to the following manuals:

- **FX3U-485ADP-MB**
- **FX3S/FX3G/FX3GC/FX3U/FX3UC Series User’s Manual**

**3.1 Connection to the PLC**

The connection-specific wiring method to the PLC is FX3U (FX3S series), which is the same as the FX3U-485-BD. Refer to the respective PLC User's Manual.

**3.2 Connection to Other Special Adapters**

- **485ADP-MB**
- **485ADP-BD**
- **Note**: Be sure to connect the special adapter before connecting other special adapters.

**4. Power Supply**

To use the FX3U-485ADP-MB, connect your PLC with an AC/DC 24 V power supply.

**5. Specifications**

- **General**
  - **Rated Input**: AC/DC 24 V
  - **Output**: 0.20 A to 0.25 A

- **Communication**
  - **Transmission**
  - **Signal direction**: Half-duplex
  - **Transmission speed**: 38400 bps (maximum)

**6. Safety Precautions**

- **Handling Precautions**
  - **Connect the special adapter**
  - **Special adapters must be used**
  - **Do not bundle**

- **Connection Precautions**
  - **Do not bundle**
  - **Exposing the power supply is prohibited**

- **No marking**
  - **Do not bundle**

**7. Maintenance and Storage Precautions**

- **Cleaning**
  - **Do not bundle**

- **Proper handling**
  - **Connect the special adapter**
  - **Special adapters must be used**

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**1.3 External Dimensions and Part Names**

**1.4 Operation of Terminal Resistor Selector Switch**

Use the terminal resistor selector switch to select the appropriate resistance value. Depending on the application, you may have to change the setting. For details, refer to the figure above. Consult the PLC user manual when setting the switch.

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**2. Channel Allocation**

- **FX3U-485ADP-MB**: Communication port channel 1 (main) is assigned to the main unit. Follow the PLC user manual for details.

**3. Specifications**

- **Power Supply**: AC/DC 24 V
- **Rated Input**: 0.20 A to 0.25 A

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**For more detailed information, refer to the FX3U-485ADP-MB communication special adapter user manual.**