**FX3U-485-BD INSTALLATION MANUAL**

**1. Outline**
FX3U-485-BD is an expansion board equipped with an European terminal block for RS-485 communication. The FX3U-485-BD exchanges data with RS-485 devices. For wiring, specifications, settings, and program examples, refer to the following manual:

**1.1 Incorporated Items**

<table>
<thead>
<tr>
<th>Product</th>
<th>Specification</th>
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<tbody>
<tr>
<td>RS-485 communication expansion board FX3U-485-BD</td>
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</tbody>
</table>

**1.2 Communication Function**

- **Network Communication:** Data transfer connecting up to eight FX3U Series PLCs.
- **Parallel link:** Data transfer between two PLCs, relationship specifying master/slave stations.
- **Non-protocol communication:** Serial communication between PLC and RS-485 device via non-protocol.
- **Inverter communication:** Controlling Mitsubishi’s FREQROL inverter using inverter communication instructions.

**1.3 External Dimensions and Part Names**

- **Model name:** FX3U-485-BD
- **Product dimension:** 110 mm x 121 mm x 27 mm
- **Weight:** 110 g

**1.4 Non-Protocol Communication, Computer Link**

- **Data transfer:** Connecting up to eight FX Series PLCs.
- **Port Specification:** 19200 bps

**2. Installation**

**2.1 Installation Precautions**

- **WARNING:** Indicates that incorrect handling may cause hazardous conditions, resulting in death or serious injury.
- **CAUTION:** Indicates that incorrect handling may cause hazardous conditions, resulting in minor or slight personal injury or physical damage.

Depending on the circumstances, procedures indicated by **WARNING** may also cause severe injury. It is important to follow all precautions for personal safety.

**Associated Manuals**

<table>
<thead>
<tr>
<th>Manual name</th>
<th>Manual No.</th>
<th>Description</th>
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</table>
| NEXX Electric Corporation | HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

**For safe use**

- **This product has been manufactured as a general purpose part for general industrial applications, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.**
- **Special damages and secondary damages whether foreseeable or not compensation for accidents, and compensation for damages to products other than Mitsubishi products.**
- **Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.**

**DISPOSAL PRECAUTIONS**

- **Do not disassemble or modify the PLC:** Doing so may cause fire, equipment failures, or malfunctions. (*For repair, contact your local Mitsubishi Electric distributor.)*
- **Do not touch the conductive parts of the product directly:** Doing so may cause device failures or malfunctions.
- **Do not touch the conductive parts of the product directly:** Connecting the expansion board securely to their designated connectors. Loose connections may cause malfunctions.