




## EMERSON FB3000 RTU 12-Channel Mixed IO Module Installation Guide

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## Device Safety Considerations

### • Reading these Instructions

Before operating the device, read these instructions carefully and understand their safety implications. In some situations, improperly using this device may result in damage or injury. Keep this manual in a convenient location for future reference. Note that these instructions may not cover all details or variations in equipment or cover every possible situation regarding installation, operation, or maintenance. Should problems arise that are not covered sufficiently in the text, immediately contact Customer Support for further information?

### • Protecting Operating Processes

A failure of this device – for whatever reason — may leave an operating process without appropriate protection and could result in possible damage to property or injury to persons. To protect against this, you should review the need for additional backup equipment or provide alternate means of protection (such as alarm devices, output limiting, fail-safe valves, relief valves, emergency shutoffs, emergency switches, etc.). Contact Remote Automation Solutions for additional information.

- **Returning Equipment**

If you need to return any equipment to Remote Automation Solutions, it is your responsibility to ensure that the equipment has been cleaned to safe levels, as defined and/or determined by applicable federal, state, and/or local law regulations or codes. You also agree to indemnify Remote Automation Solutions and hold Remote Automation Solutions harmless from any liability or damage which Remote Automation Solutions may incur or suffer due to your failure to ensure device cleanliness.

- **Grounding Equipment**

Ground metal enclosures and exposed metal parts of electrical instruments in accordance with OSHA rules and regulations as specified in Design Safety Standards for Electrical Systems, 29 CFR, Part 1910, Subpart S, dated: April 16, 1981 (OSHA rulings are in agreement with the National Electrical Code). You must also ground mechanical or pneumatic instruments that include electrically operated devices such as lights, switches, relays, alarms, or chart drives.

**Important:** Complying with the codes and regulations of authorities having jurisdiction is essential to ensuring personnel safety. The guidelines and recommendations in this manual are intended to meet or exceed applicable codes and regulations.

If differences occur between this manual and the codes and regulations of authorities having jurisdiction, those codes and regulations must take precedence.

- **Protecting from Electrostatic Discharge (ESD)**

This device contains sensitive electronic components which be damaged by exposure to an ESD voltage. Depending on the magnitude and duration of the ESD, it can result in erratic operation or complete failure of the equipment. Ensure that you correctly care for and handle ESD-sensitive components.

## **System Training**

A well-trained workforce is critical to the success of your operation. Knowing how to correctly install, configure, program, calibrate, and troubleshoot your Emerson equipment provides your engineers and technicians with the skills and confidence to optimize your investment. Remote Automation Solutions offers a variety of ways for your personnel to acquire essential system expertise. Our full-time professional instructors can conduct classroom training at several of our corporate offices, at your site, or even at your regional Emerson office. You can also receive the same quality training via our live, interactive Emerson Virtual Classroom and save on travel costs. For our complete schedule and further information, contact the Remote Automation Solutions Training Department at 800-338-8158 or email us at [education@emerson.com](mailto:education@emerson.com).

## **Ethernet Connectivity**

This automation device is intended to be used in an Ethernet network that does not have public access. The inclusion of this device in a publicly accessible Ethernet-based network is not recommended.

## **Removing/Replacing the 12-Channel Mixed I/O Module**



Ensure the RTU is in a non-hazardous area. Never open the enclosure in a hazardous area.



EXPLOSION HAZARD: Ensure the area in which you perform this operation is non-hazardous. Performing this operation in a hazardous area could result in an explosion.



During the removal/replacement, switch the I/O this module controls over to whatever manual/backup system you have.

1. Squeeze the orange tabs at the top and bottom of the I/O module (3MIX12) to release the module and slide it straight out of the slot.

#### **Removing an I/O Module**



2. Press the new replacement module into the slot until it is properly seated.

#### **Replacing an I/O Module**



For customer service and technical support,  
visit [www.Emerson.com/SupportNet](http://www.Emerson.com/SupportNet)

<b>Global Headquarters,</b> North America, and Latin America: Emerson Automation Solutions Remote Automation Solutions 6005 Rogerdale Road Houston, TX 77072 U.S.A. T +1 281 879 2699   F +1 281 988 4445	<b>Europe:</b> Emerson Automation Solutions Remote Automation Solutions Unit 1, Waterfront Business Park Dudley Road, Brierley Hill Dudley DY5 1LX UK T +44 1384 487200   F +44 1384 487258
<b>Middle East/Africa:</b> Emerson Automation Solutions Remote Automation Solutions Emerson FZE P.O. Box 17033 Jebel Ali Free Zone – South 2 Dubai U.A.E. T +971 4 8118100   F +971 4 8865465	<b>Asia-Pacific:</b> Emerson Automation Solutions Remote Automation Solutions 1 Pandan Crescent Singapore 128461 T +65 6777 8211   F +65 6777 0947

[www.Emerson.com/RemoteAutomation](http://www.Emerson.com/RemoteAutomation)

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## Documents / Resources

	<p><b><a href="#">EMERSON FB3000 RTU 12-Channel Mixed IO Module</a></b> [pdf] Installation Guide  FB3000, RTU 12-Channel Mixed IO Module, FB3000 RTU 12-Channel Mixed IO Module</p>
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## References

- [Emerson Remote Terminal Unit \(RTU\) - FB3000 RTU | Emerson US](#)
- [SupportNet | Emerson](#)