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EMERSON FB3000 Remote Terminal Unit Installation Guide

Contents

EMERSON FB3000 Remote Terminal Unit

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 trouble-shoot 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**.

Ethernet Connectivity

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

Removing/Replacing the CPU

DANGER

- 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.
- Switch the process this RTU controls over to whatever manual/backup system you have.

Note:
For security reasons, user accounts (usernames/passwords) for users of the FB3000 are not saved in the solution file. You will need to re-create these after you install the new CPU module.

1. Back up data in the CPU. (See Chapter 5 of the FB3000 RTU Instruction Manual [D301851X012]) for details.)
2. Remove power from the FB3000.
3. Depress the orange tabs at the top and bottom of the CPU module to release the module and slide it straight out of the slot.|

Removing the CPU Module

4. Press the new replacement module into slot 1 until it is properly seated.

Replacing the CPU Module

5. Restore power.
6. In FBxConnect, download the solution (.ZSL) to restore the configuration backed up from step 1.
7. In FBxConnect, re-create any user accounts (usernames, passwords) for users of the device.

For customer service and technical support, visit **www.Emerson.com/SupportNet**

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Documents / Resources

[**EMERSON FB3000 Remote Terminal Unit**](#) [pdf] Installation Guide
FB3000 Remote Terminal Unit, FB3000, Remote Terminal Unit, Terminal Unit, Unit

References

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

- ⬧ **SupportNet | Emerson**

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