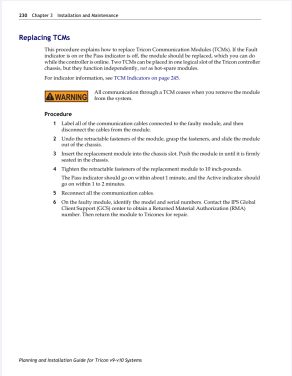
FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Invensys Triconex 4351

Tricon Communication Module


330 Chapter 3 Installation and Maintenance

Replacing TCMs

This procedure explains how to replace Tricon Communication Modules (TCMs). If the Fault indicator is on or the Pass indicator is off, the module should be replaced, which you can do while the controller is online. Two TCMs can be placed in one logical slot of the Tricon controller chassis, but they function independently, *not* as hot-spare modules.

For indicator information, see TCM Indicators on page 245.

WARNING All communication through a TCM ceases when you remove the module from the system.

Procedure

1 Label all of the communication cables connected to the faulty module, and then disconnect the cables from the module.
2 Undo the retractable fasteners of the module, grasp the fasteners, and slide the module out of the chassis.
3 Insert the replacement module into the chassis slot. Push the module in until it is firmly seated in the chassis.
4 Tighten the retractable fasteners of the replacement module to 10 inch-pounds.
The Pass indicator should go on within about 1 minute, and the Active indicator should go on within 1 to 2 minutes.
5 Reconnect all the communication cables.
6 On the faulty module, identify the model and serial numbers. Contact the IPS Global Client Support (GCS) center to obtain a Returned Material Authorization (RMA) number. Then return the module to Triconex for repair.

Planning and Installation Guide for Tricon v9-v10 Systems

PRODUCT	4351
FAMILY	Tricon v9-v10
FUNCTION	Tricon Communication Module
STATUS	Verify exact configuration

Prepared by Amikon Limited from Invensys 9700077-012, February 2009. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Supported Tricon version	10.0
Network ports	Two RJ-45 copper ports
Network medium	10/100BaseT twisted pair
Network speed	10 or 100 Mbps
Serial connectors	Four DB-9 ports
Serial electrical interfaces	RS-232 and RS-485
Maximum serial rate per port	115.2 kbps

02 MOUNTING AND CONNECTION

- Label every communication cable before disconnecting the module.
- Expect communication through the removed TCM to stop; its pair is not a hot spare.
- Undo the retractable fasteners and slide the module out carefully.
- Insert the correct replacement and seat it firmly in the chassis.
- Tighten the retractable fasteners to 10 inch-pounds.

03

OFFICIAL INSTALLATION REFERENCE

Replacing TCMs

This procedure explains how to replace Tricon Communication Modules (TCMs). If the Fault indicator is on or the Pass indicator is off, the module should be replaced, which you can do while the controller is online. Two TCMs can be placed in one logical slot of the Tricon controller chassis, but they function independently, *not* as hot-spare modules.

For indicator information, see TCM Indicators on page 245.

WARNING All communication through a TCM ceases when you remove the module from the system.

Procedure

1. Label all of the communication cables connected to the faulty module, and then disconnect the cables from the module.
2. Undo the retractable fasteners of the module, grasp the fasteners, and slide the module out of the chassis.
3. Insert the replacement module into the chassis slot. Push the module in until it is firmly seated in the chassis.
4. Tighten the retractable fasteners of the replacement module to 10 inch-pounds.

   The Pass indicator should go on within about 1 minute, and the Active indicator should go on within 1 to 2 minutes.
5. Reconnect all the communication cables.
6. On the faulty module, identify the model and serial numbers. Contact the IPS Global Client Support (GCS) center to obtain a Returned Material Authorization (RMA) number. Then return the module to Triconex for repair.

Official manufacturer reference reproduced from Invensys 9700077-012, February 2009. Use the current source document and all referenced drawings and notes for installation.

04 CABLE ROUTING AND CONNECTION

- Expect communication through the removed TCM to stop; its pair is not a hot spare.
- Undo the retractable fasteners and slide the module out carefully.
- Insert the correct replacement and seat it firmly in the chassis.
- Tighten the retractable fasteners to 10 inch-pounds.
- Check Pass after approximately 1 minute and Active after 1-2 minutes; reconnect cables and verify communication.

05 INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Confirm normal indications and fault-contact state after commissioning.
- Record the installed order number and baseline operating condition.

06 CONTROLLED DOCUMENTS

Official source	Invensys 9700077-012, February 2009
Product record	4351
Manufacturer	Invensys Triconex
Support	INFO@AMIKON.CN