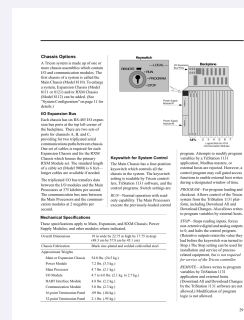


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

8110

Main controller chassis



PRODUCT	8110
FAMILY	Triconex safety system
FUNCTION	Main controller chassis
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from Triconex documentation. This guide supplements the complete manufacturer manual and site procedure.

01

CONFIRM THE ORDERED CONFIGURATION

Product Class	Main controller chassis
System Platform	Tricon fault-tolerant controller
Mechanical Format	19-inch industrial rack assembly
Chassis Fabrication	Black zinc-plated welded steel
Overall Width	48.3 cm cabinet span
Overall Height	57.8 cm installed frame

02

PREPARATION AND CONNECTION

- Confirm the complete 8110 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

Chassis Options

A Tricon system is made up of one or more chassis assemblies which contain I/O and communication modules. The first chassis of a system is called the Main Chassis (Model 8110). To enlarge a system, Expansion Chassis (Model 8111 or 8121) and/or RXM Chassis (Model 8112) can be added. (See "System Configuration" on page 11 for details.)

I/O Expansion Bus

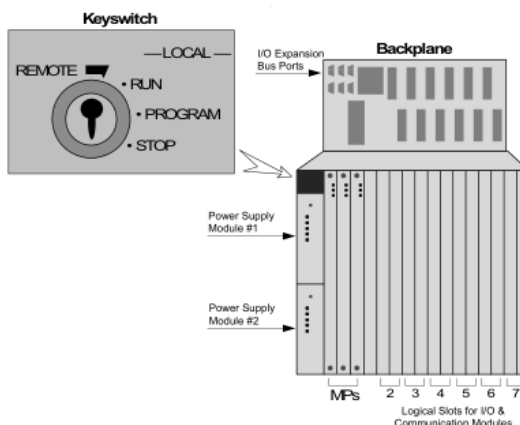
Each chassis has six RS-485 I/O expansion bus ports at the top left corner of the backplane. There are two sets of ports for channels A, B, and C, providing for two triplicated serial communications paths between chassis. One set of cables is required for each Expansion Chassis and for the RXM Chassis which houses the primary RXM Module set. The standard length of a cable set (Model 9000) is 6 feet—longer cables are available if needed.

The triplicated I/O bus transfers data between the I/O modules and the Main Processors at 375 kilobits per second. The communication bus runs between the Main Processors and the communication modules at 2 megabits per second.

Mechanical Specifications

These specifications apply to Main, Expansion, and RXM Chassis; Power Supply Modules; and other modules where indicated.

Overall Dimensions	19 in wide by 22.75 in high by 17.75 in deep (48.3 cm by 57.8 cm by 45.1 cm)
Chassis Fabrication	Black zinc-plated and welded cold-rolled steel
Approximate Weights	
Main or Expansion Chassis	54.0 lbs. (24.5 kg.)
Power Module	7.2 lbs. (3.3 kg.)
Main Processor	4.7 lbs. (2.1 kg.)
I/O Module	4.7 to 6.0 lbs. (2.1 kg. to 2.7 kg.)
HART Interface Module	4.8 lbs. (2.2 kg.)
Communication Module	5.0 lbs. (2.3 kg.)
16-point Termination Panel	.09 lbs. (.04 kg.)
32-point Termination Panel	2.1 lbs. (.95 kg.)



Keyswitch for System Control

The Main Chassis has a four-position keyswitch which controls all the chassis in the system. The keyswitch setting is readable by Tricon controllers, TriStation 1131 software, and the control programs. Switch settings are:

RUN—Normal operation with read-only capability. The Main Processors execute the previously-loaded control

program. Attempts to modify program variables by a TriStation 1131 application, Modbus masters, or external hosts are rejected. However, a control program may call gated access functions to enable external host writes during a designated window of time.

PROGRAM—For program loading and checkout. Allows control of the Tricon system from the TriStation 1131 platform, including Download All and Download Changes. Also allows writes to program variables by external hosts.

STOP—Stops reading inputs, forces non-retentive digital and analog outputs to 0, and halts the control program. (Retentive outputs retain the value they had before the keyswitch was turned to Stop.) The Stop setting can be used for installation and service of process-related equipment, *but is not required for service of the Tricon controller.*

REMOTE—Allows writes to program variables by TriStation 1131 application and external hosts. (Download All and Download Changes by the TriStation 1131 software are not allowed.) Modification of program logic is not allowed.

04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	Tricon Technical Product Guide
Product record	8110
Manufacturer	Triconex
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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