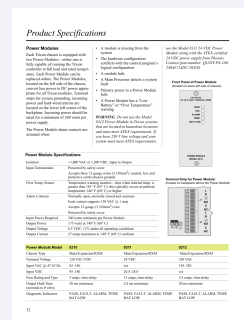


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

8300A

Redundant chassis power module



PRODUCT	8300A
FAMILY	Triconex safety system
FUNCTION	Redundant chassis power module
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

Component Type	Redundant chassis power module
Order Reference	8300A
System Platform	Triconex safety control system
Primary Function	Converts line power for Tricon chassis
Channel or Port Capacity	Two redundant power positions
Electrical Classification	Nameplate-rated incoming supply

02

PREPARATION AND CONNECTION

- Confirm the complete 8300A 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.

Product Specifications

Power Modules

Each Tricon chassis is equipped with two Power Modules—either one is fully capable of running the Tricon controller at full load and rated temperature. Each Power Module can be replaced online. The Power Modules, located on the left side of the chassis, convert line power to DC power appropriate for all Tricon modules. Terminal strips for system grounding, incoming power and hard-wired alarms are located on the lower left corner of the backplane. Incoming power should be rated for a minimum of 240 watts per power supply.

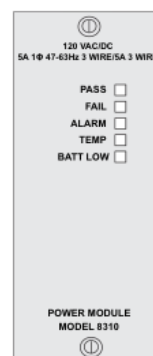
The Power Module alarm contacts are actuated when:

- A module is missing from the system
- The hardware configuration conflicts with the control program's logical configuration
- A module fails
- A Main Processor detects a system fault
- Primary power to a Power Module fails
- A Power Module has a "Low Battery" or "Over Temperature" warning

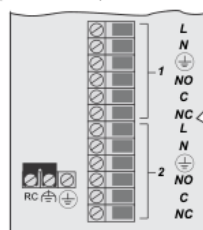
WARNING: Do not use the Model 8312 Power Module in Tricon systems that are located in hazardous locations and must meet ATEX requirements. If you have 230 V line voltage and your system must meet ATEX requirements,

use the Model 8311 24 VDC Power Module along with the ATEX-certified 24 VDC power supply from Phoenix Contact (part number: QUINT-PS-100-240AC/24DC/10/EX).

Front Panel of Power Module:
(located on lower left side of chassis)



Terminal Strip for Power Module:
(located on backplane above the Power Module)



Power Module Specifications

Isolation	>1,000 VAC or 1,500 VDC, Input to Output
Input Terminations	Protected by safety cover Accepts three 12-gauge wires (3.310mm ²): neutral, hot, and protective earth (chassis ground)
Over-Temp. Sensor	Temperature warning monitor—trips when internal temp. is greater than 181° F (83° C); this typically occurs at ambient temperature 140° F (60° C) or higher
Alarm Contacts	Normally open, normally closed and common Each contact supports 120 VAC @ 1 amp Accepts 12-gauge (3.310mm ²) wire Protected by safety cover
Input Power Required	240 watts minimum per Power Module
Output Power	175 watts at 140° F (60° C)
Output Voltage	6.5 VDC, ±1% under all operating conditions
Output Current	27 amps maximum at 140° F (60° C) ambient

Power Module Model	8310	8311	8312
Chassis Type	Main/Expansion/RXM	Main/Expansion/RXM	Main/Expansion/RXM
Nominal Voltage	120 VAC/VDC	24 VDC	230 VAC
Input VAC @ 47-63 Hz	85–140	n/a	185–285
Input VDC	95–180	20.4–28.8	n/a
Fuse Rating and Type	5 amps, time-delay	15 amps, time-delay	2.5 amps, time-delay
Output Hold Time (nominal to 0 volts)	20 ms minimum	2.8 ms minimum	20 ms minimum
Diagnostic Indicators	PASS, FAULT, ALARM, TEMP, BAT LOW	PASS, FAULT, ALARM, TEMP, BAT LOW	PASS, FAULT, ALARM, TEMP, BAT LOW

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	8300A
Manufacturer	Triconex
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM