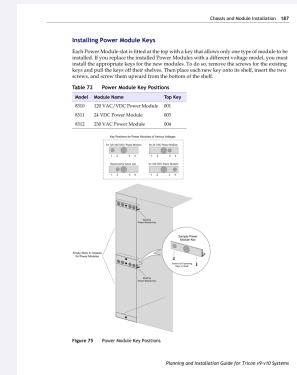


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Invensys Triconex 8311

24 VDC Power Module



PRODUCT	8311
FAMILY	Tricon v9-v10
FUNCTION	24 VDC Power 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

Recommended input voltage	24 VDC, -15% to +20%
Extended input range	19.2-36 VDC; short periods only
Low-line hysteresis	1.5 VDC minimum
Required source capacity	240 W minimum per power source
Input over-voltage clamp	40 VDC
Steady-state input current	5 A typical; 10 A maximum
Input inrush current	23 A maximum at 24 VDC for 10 ms

02 MOUNTING AND CONNECTION

- Verify 8311 identity and the documented top slot key 003.
- Provide an independent source rated at least 240 W for each power module.
- Check normal input range, polarity and protective earth.
- Disable affected incoming power and verify healthy secondary power before removal.
- Wait at least 60 seconds before reinstalling a removed module.

Installing Power Module Keys

Each Power Module slot is fitted at the top with a key that allows only one type of module to be installed. If you replace the installed Power Modules with a different voltage model, you must install the appropriate keys for the new modules. To do so, remove the screws for the existing keys and pull the keys off their shelves. Then place each new key onto its shelf, insert the two screws, and screw them upward from the bottom of the shelf.

Table 72 Power Module Key Positions

Model	Module Name	Top Key
8310	120 VAC/VDC Power Module	001
8311	24 VDC Power Module	003
8312	230 VAC Power Module	004

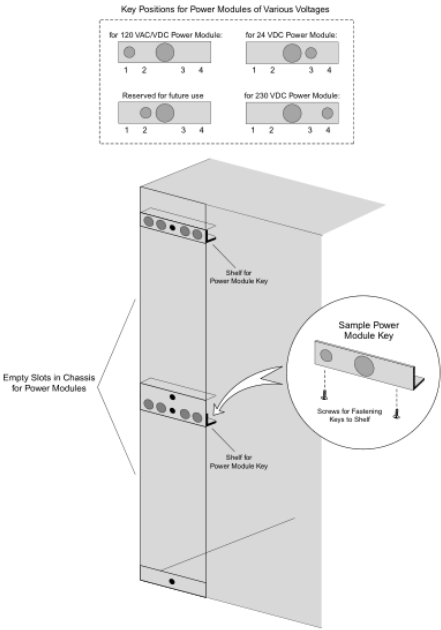


Figure 75 Power Module Key Positions

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

- Provide an independent source rated at least 240 W for each power module.
- Check normal input range, polarity and protective earth.
- Disable affected incoming power and verify healthy secondary power before removal.
- Wait at least 60 seconds before reinstalling a removed module.
- Check seating and Status indication; do not use alarm contacts in hazardous locations.

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	8311
Manufacturer	Invensys Triconex
Support	INFO@AMIKON.CN