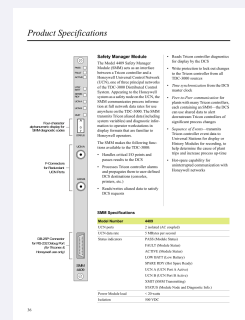


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

4409

Safety Manager communication module



PRODUCT	4409
FAMILY	Triconex safety system
FUNCTION	Safety Manager communication 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

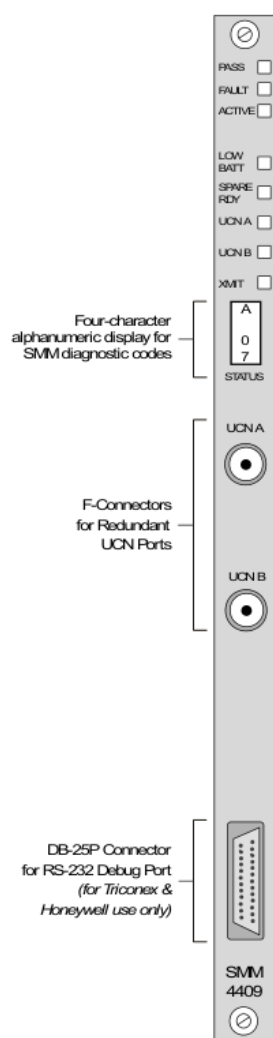
Component Type	Safety Manager communication module
Order Reference	4409
System Platform	Triconex safety control system
Primary Function	Interfaces Tricon with Honeywell UCN
Channel or Port Capacity	One safety node interface
Electrical Classification	UCN network communication

02

PREPARATION AND CONNECTION

- Confirm the complete 4409 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



Safety Manager Module

The Model 4409 Safety Manager Module (SMM) acts as an interface between a Tricon controller and a Honeywell Universal Control Network (UCN), one of three principal networks of the TDC-3000 Distributed Control System. Appearing to the Honeywell system as a safety node on the UCN, the SMM communicates process information at full network data rates for use anywhere on the TDC-3000. The SMM transmits Tricon aliased data (including system variables) and diagnostic information to operator workstations in display formats that are familiar to Honeywell operators.

The SMM makes the following functions available to the TDC-3000:

- Handles critical I/O points and passes results to the DCS
- Processes Tricon controller alarms and propagates them to user-defined DCS destinations (consoles, printers, etc.)
- Reads/writes aliased data to satisfy DCS requests

- Reads Tricon controller diagnostics for display by the DCS
- Write protection to lock out changes to the Tricon controller from all TDC-3000 sources
- *Time synchronization* from the DCS master clock
- *Peer-to-Peer communication* for plants with many Tricon controllers, each containing an SMM—the DCS can use shared data to alert downstream Tricon controllers of significant process changes
- *Sequence of Events*—transmits Tricon controller event data to Universal Stations for display or History Modules for recording, to help determine the cause of plant trips and increase process up-time
- Hot-spare capability for uninterrupted communication with Honeywell networks

SMM Specifications

Model Number	4409
UCN ports	2 isolated (AC coupled)
UCN data rate	5 MBytes per second
Status indicators	PASS (Module Status) FAULT (Module Status) ACTIVE (Module Status) LOW BATT (Low Battery) SPARE RDY (Hot Spare Ready) UCN A (UCN Port A Active) UCN B (UCN Port B Active) XMIT (SMM Transmitting) STATUS (Module Node and Diagnostic Info.)
Power Module load	< 20 watts
Isolation	500 VDC

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	4409
Manufacturer	Triconex
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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