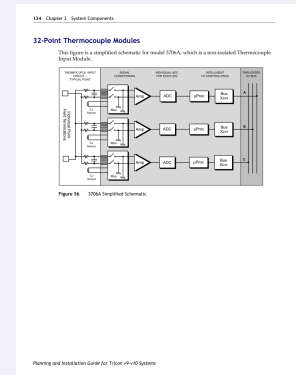


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Invensys Triconex 3706A

Non-Isolated Thermocouple Input Module



PRODUCT	3706A
FAMILY	Tricon v9-v10
FUNCTION	Non-Isolated Thermocouple Input 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 thermocouples	J, K, T
Input signals	32 differential, DC-coupled
Open-input detection	Upscale or downscale, selected on termination module
Input update rate	50 ms maximum; see firmware hot-spare restriction
Input resistance	22 Mohm DC, typical
Input point protection	110 VAC continuous without damage
Common-mode noise rejection	-85 dB minimum at 0-60 Hz; -95 dB typical at 60 Hz

02 MOUNTING AND CONNECTION

- Confirm the 3706A non-isolated module and configured J, K or T sensor type.
- Install and connect the required external field termination panel.
- Short unused thermocouple inputs as required by the installation section.
- Keep common-mode voltage within +/-10 VDC and termination temperature uniform.
- Allow for the documented one-second hot-spare freeze on applicable NITC firmware.

32-Point Thermocouple Modules

This figure is a simplified schematic for model 3706A, which is a non-isolated Thermocouple Input Module.

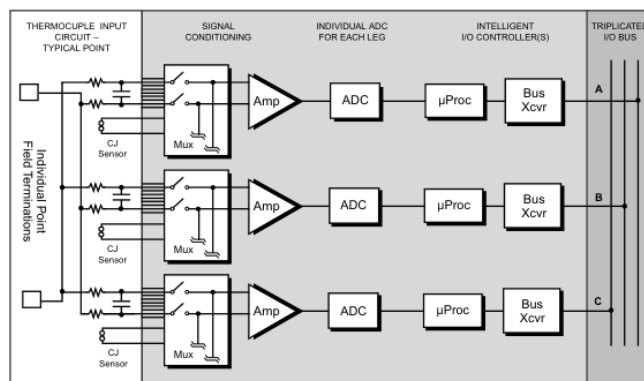


Figure 56 3706A Simplified Schematic

04

CABLE ROUTING AND CONNECTION

- Install and connect the required external field termination panel.
- Short unused thermocouple inputs as required by the installation section.
- Keep common-mode voltage within +/-10 VDC and termination temperature uniform.
- Allow for the documented one-second hot-spare freeze on applicable NITC firmware.
- Verify known temperature inputs, burnout response and Pass, Fault and Active status.

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	3706A
Manufacturer	Invensys Triconex
Support	INFO@AMIKON.CN