

AMIKON TECHNICAL DOCUMENTATION

# Installation Instructions

## ICS Triplex T8431

TMR analog input module

|                 |            |         |          |
|-----------------|------------|---------|----------|
| INPUTS          | SUPPLY     | SIGNALS | PLATFORM |
| 40 TMR channels | 20-32 V DC | 0-22 mA | Trusted  |

For qualified personnel only. This installation summary is not a substitute for the controlled manufacturer procedure, system safety plan or approved site isolation requirements.

01

## BEFORE INSTALLATION

|                  |                                                                       |
|------------------|-----------------------------------------------------------------------|
| Module identity  | Confirm T8431, the actual revision and serial number.                 |
| Module condition | Reject damaged housings or bent pins; do not straighten pins.         |
| Static handling  | Use ESD controls; avoid exposed pins and never remove the housing.    |
| Chassis position | Use a compatible T8100 or T8300 I/O slot, not a processor position.   |
| Cable and FTA    | Select the documented FTA/VFTA and Companion Slot or SmartSlot cable. |

02

## PREPARATION AND BOUNDARIES

- Verify cable polarization against the module; T8431 keying removes pins 1, 4 and 5. For Companion Slot cables, polarize both strips as specified.
- Do not wire from a generic pin map. Consult the complete connector table and associated FTA/cable instructions before connecting field signals.

03  
INSTALLATION AND COMMISSIONING

|    |                                                                                                                                        |
|----|----------------------------------------------------------------------------------------------------------------------------------------|
| 01 | Seat the field cable correctly. Use the release key and open both ejector tabs before inserting the module.                            |
| 02 | Guide the module into its intended slot. Press the upper and lower fascia to seat it, then lock both ejector tabs.                     |
| 03 | If insertion resists, withdraw and inspect rather than forcing the connector. Do not install a unit with damaged pins.                 |
| 04 | Verify the engineering assignment, channel scaling, line-monitoring thresholds and filtering for each field device.                    |
| 05 | Provide the specified external barriers for intrinsically safe circuits. Internal module isolation is not an intrinsic-safety barrier. |
| 06 | Use the controlled Companion Slot or SmartSlot changeover procedure for online replacement; validate the configured arrangement first. |

04  
SAFETY AND FINAL CHECKS

- Check slice health and channel diagnostics before enabling the associated safety function.
- Validate field values and configured fault thresholds under the approved commissioning and proof-test procedure.

05  
OFFICIAL PROCEDURE

ICSTT-RM273Q-EN-P | August 2021 | PD-T8431 Issue 19

Installation and keying: pp. 17-19; configuration: p. 21; operation/maintenance: pp. 31-35; specifications: pp. 37-38.

Independent Amikon summary, not a manufacturer-issued manual. Use the complete current manufacturer instructions and approved system safety procedure. No original manual pages are reproduced.

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

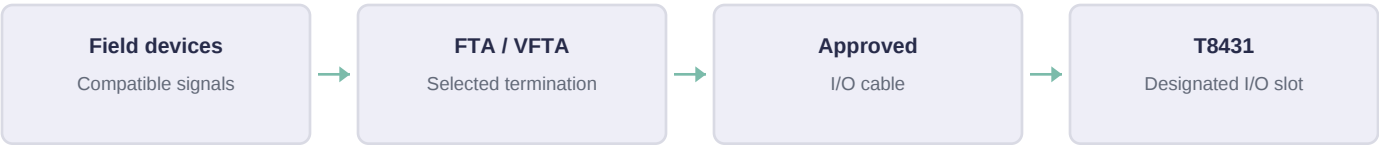
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06 ORIGINAL REFERENCE SCHEMATICS

ICS Triplex T8431 | Installation supplement

Original Amikon illustrations based on the cited manufacturer pages. Not to scale; not a manufacturer drawing or an approved installation / wiring plan.

A | INSTALLATION AND CONNECTION CONTEXT

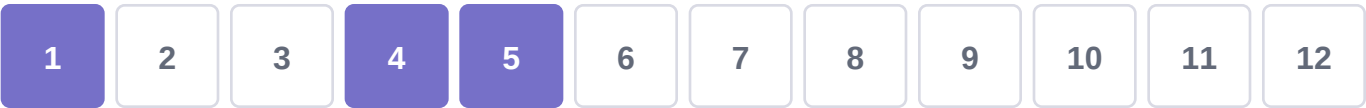


Logical signal path only. Select the documented cable, termination and field-device arrangement; these lines do not assign electrical terminals.

OEM installation context - PDF page 17

B | MECHANICAL KEYING INDEX

Number index only - NOT the physical connector orientation.



HIGHLIGHTED KEY PIECES: 1, 4, 5

The OEM instruction identifies these mechanical key pieces for removal. Match the actual cable to the original figure before work; these are NOT electrical signal pins.

For Companion Slot cables, verify both keying strips. Do not infer connector orientation or field-wiring connections from this index.

07 ORIGINAL MANUFACTURER FIGURE LINKS

Figure 3: Module Polarization - PDF page 19

Connector reference table - PDF page 18 (not reproduced)

ICSTT-RM273Q-EN-P | August 2021 | PD-T8431 Issue 19

Confirm the actual supplied hardware revision and the controlled cable / termination documents before installation.

Links include PDF page targets. If your viewer opens the cover, enter the stated page number. Retain the complete manufacturer safety instructions and approved project documents.