

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

ICS Triplex T9431

8 Channel Analogue Input Module

CHANNELS	SIGNAL TYPE	INPUT RANGE	PLATFORM
8	Analogue Input	0-24 mA DC	AADvance

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

Exact identity	Confirm T9431, hardware revision and firmware against site records.
Module condition	Check for damage and allow stored equipment to reach installation temperature.
Base and termination	Confirm T9300 mounting and the required T9831/T9832/T9833 arrangement.
Field compatibility	Match the transmitter wiring, loop power, configured current bands, filtering and documented input slew limits.
Safety plan	Use trained personnel and the controlled site isolation and commissioning plan.

02

PREPARATION AND BOUNDARIES

- Use the full RM448 field-circuit diagram matching the selected termination, redundancy and field-device power arrangement.
- Record module identity and location; inspect coding pegs, mating connectors and the locking mechanism before fitting.

03
INSTALLATION AND COMMISSIONING

01	Confirm T9431 and the correct T9831/T9832/T9833 termination against the approved controller build.
02	Check that the termination coding pegs match the sockets on the rear of the intended module; do not force a mismatch.
03	Locate the module on the T9300 dowel pins and fully mate the base and termination connectors as specified in the OEM procedure.
04	Secure the module locking screw in the documented locked position. The locking mechanism is also a power interlock.
05	Match the transmitter wiring, loop power, configured current bands, filtering and documented input slew limits.
06	Validate module health, channel readings or output states and the configured fault response under the approved functional test procedure.

04
SAFETY AND FINAL CHECKS

- Review Healthy, Ready, Run and channel indications together; a field fault and a module fault require different investigation.
- Confirm the intended operating state and controller diagnostics before enabling the associated process function.

05
OFFICIAL PROCEDURE

[ICSTT-RM447N-EN-P | AADvance Solutions Handbook | February 2021](#)

Handbook PDF pp. 111-114: product specifications. Separate RM448 build manual: original installation and field-loop drawings.

[ICSTT-RM448N | AADvance System Build Manual | September 2024](#)

Independent Amikon reference, not an OEM manual. Use the complete manufacturer instructions matching the actual hardware and firmware. No manufacturer pages are reproduced.

AMIKON PRODUCT SUPPORT

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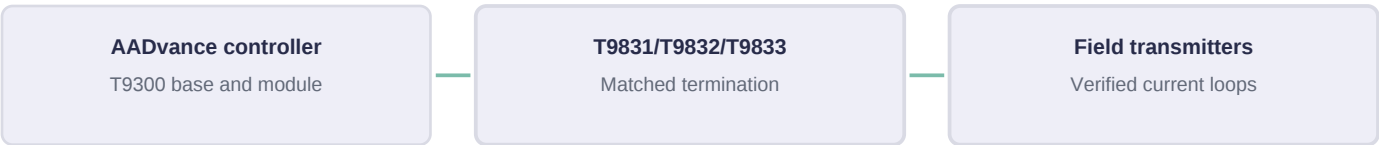
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ORIGINAL REFERENCE SCHEMATICS

ICS Triplex T9431 | Documented installation context

Original Amikon illustration based on the linked OEM pages. Logical arrangement only; not to scale and not an electrical wiring or manufacturer installation drawing.

A | EQUIPMENT ARRANGEMENT



Logical relationship only; signal direction and field power depend on the selected input or output circuit.

Use the complete linked OEM drawings; no generic connector pinout or live-work permission is supplied.

B | CONFIGURATION BOUNDARY

Use T9431 only with the verified AADvance base, correct analogue input termination and approved field circuit. Replacement suitability depends on the full installed configuration.

07

ORIGINAL MANUFACTURER DRAWING AND PROCEDURE LINKS

[Two-wire analogue input field loop - PDF page 100](#)

[Three and four-wire loop references - PDF page 101](#)

[I/O module installation - PDF page 116](#)

If the viewer ignores the page target, enter the stated PDF page manually. Retain the full manufacturer warnings and approved maintenance plan; this reference does not authorize live work.