

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

ICS Triplex T3420A

Regent analogue input module

INPUT MODE	RESOLUTION	RESPONSE TYPE	PLATFORM
16 SE / 8 differential	12 bits	60 Hz rejection	Regent

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	Verify T3420A, the 60 Hz rejection version, and the intended Regent I/O position.
Mode and termination	Match sixteen single-ended or eight differential inputs, the appropriate termination assembly and upper 9/lower 15 keys.
Input and power	Verify the selected voltage range, external current-conversion resistors and separate transmitter loop supply.
Calibration	Check documented calibration for the actual range and mode and the site calibration schedule.
Software definition	Select the standard-response module and correct single-ended or differential mode in WINTERPRET; verify scaling and voting.

02

PREPARATION AND BOUNDARIES

- Use the complete manufacturer wiring and jumper drawings with the approved maintenance procedure; this summary is not a jumper map or pinout.
- Calibration requires field signals to be disconnected under controlled conditions. Protect personnel and process equipment; do not adjust the factory-set CMR potentiometer in the field.

03
INSTALLATION AND COMMISSIONING

01	Confirm the complete model, configured I/O slot and approved isolation or redundant replacement plan.
02	Compare input mode, voltage range and filtering with the actual jumper arrangement and controlled configuration.
03	Check matching termination, reference and shield connections, external resistors and transmitter power against the original drawings.
04	Verify the exact WINTERPRET response type, channel count, engineering scaling and redundant midvalue selection where used.
05	Confirm calibration for the selected mode and range using the complete qualified-personnel procedure and approved test equipment.
06	Complete the approved input, out-of-range and redundancy tests before restoring normal operation.

04
SAFETY AND FINAL CHECKS

- The NOSIG indication has range-specific thresholds; not every out-of-range signal sets it. Use the correct manufacturer threshold table and site alarm logic.
- The manual requires calibration after a range or mode change and at annual intervals after installation. Sampling update time is not the same as filtered signal response or controller scan time.

05
OFFICIAL PROCEDURE

ICSTT-RM014 | PD-6023 Issue 1

PDF pp. 1,6-7: inputs and sampling; pp. 13-25: wiring and selection; pp. 28-30,36-38: calibration and ratings.

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

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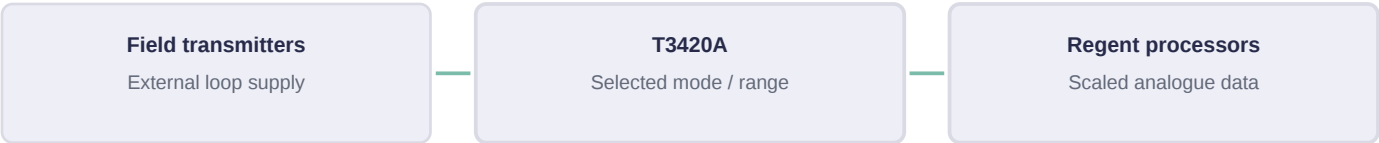
06

ORIGINAL REFERENCE SCHEMATICS

ICS Triplex T3420A | 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



Current inputs use the specified external precision conversion resistors; the module does not power transmitter loops.

Choose single-ended or differential field wiring and match calibration. Mechanical keys are upper 9 and lower 15.

B | CONFIGURATION BOUNDARY

Retain T3420A rather than assuming equivalence to the fast-response T3420AF. Check range and filter jumpers, software mode, field references and calibration together.

07

ORIGINAL MANUFACTURER DRAWING AND PROCEDURE LINKS

[Original single-ended connection drawing - PDF page 15](#)

[Original differential connection drawing - PDF page 16](#)

[Exact keys and software mode selection - PDF page 25](#)

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.