

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

ICS Triplex T3420A

Regent analogue input module



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

ICS Triplex T3420A is the Regent analogue input module with 60 Hz rejection. It accepts sixteen single-ended or eight differential voltage signals, conditions and multiplexes them, and converts the measurements into twelve-bit data for the controller I/O interface.

01

PRODUCT IDENTITY AND SPECIFICATIONS

Product model	T3420A
Input mode	16 single-ended or 8 differential; jumper selectable
Inputs per group	8 single-ended or 4 differential
Voltage ranges	0-5 V, 1-5 V, +/-5 V, 0-10 V or +/-10 V
Current signal conversion	External precision 250 ohm resistors; 4-20 mA uses the 1-5 V range
Analogue resolution	12 bits; 1 part in 4096
Full-channel update	3.60 ms single-ended; 1.80 ms differential
Frequency response at -3 dB	7.23 Hz single-ended; 3.62 Hz differential

02 TECHNICAL DATA

Attenuation at 60 Hz	18.4 dB single-ended; 24.4 dB differential
Safetybus load	1.85 load units
Field loop power	Not supplied by the module
Field-to-logic isolation	2500 V minimum
Heat dissipation	9 W
Slot keys	Upper connector 9; lower connector 15
Operating temperature	0 to +60 degrees C
Storage and humidity	-40 to +85 degrees C; 0-95% RH, noncondensing

03 APPLICATION AND CONFIGURATION

- This Regent module measures analogue voltage inputs; current signals require the documented external resistor arrangement. Match the configured channel mode, voltage range, termination, references and external transmitter supply.
- Retain T3420A rather than assuming equivalence to the fast-response T3420AF. Check range and filter jumpers, software mode, field references and calibration together.
- Ratings describe the documented equipment, not packed dimensions, shipping weight or a certified supplied-unit origin.

04 OFFICIAL DOCUMENTATION

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.

AMIKON PRODUCT SUPPORT

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