

T3420A

Regent Analog Input Module

PRODUCT TECHNICAL REFERENCE

ICS Triplex T3420A is a Regent analog input module with selectable differential or single-ended operation. It converts field voltage or current-loop signals for the Regent Safetybus system.

OFFICIAL SOURCE

ICS Regent Analog Input Modules (T3420A, T3420AF) | PD-6023 Issue 1, March 2006 | ICSTT-RM014

Verified technical profile

Regent Analog Input Module

Safetybus power	1.85 load units
Input configuration	8 differential or 16 single-ended
Inputs per group	4 differential or 8 single-ended
Resolution	12 bit
Differential scan time	1.8 ms
Single-ended scan time	3.6 ms
Voltage ranges	0 to 10 V; -10 to 10 V; 1 to 5 V; 0 to 5 V; -5 to 5 V
Current ranges	0 to 20 mA; -40 to 40 mA; 4 to 20 mA; -20 to 20 mA
Current shunt	External 250 ohm resistor
Field-loop power	Not supplied by module
Isolation	2500 V minimum
Line-frequency rejection	60 Hz
Dimensions	320 x 32 x 257 mm
Weight	1.4 kg

ENGINEERING USE OF THE VERIFIED DATA

Install the module in the documented Regent I/O chassis position, use the matching analog input termination block, and maintain the field reference and shielding arrangement shown in the official wiring diagrams. Commission by confirming channel scaling, range selection, open-wire behavior and calibration results.

FIELD CHECKPOINTS

- Confirm the complete T3420A marking and the assigned Regent chassis slot.
- Isolate field-loop power before removing the analog termination wiring.

Only values traceable to the listed manufacturer source are treated as verified technical data.

System role and engineering boundaries

ICS Triplex T3420A is a Regent analog input module with selectable differential or single-ended operation. It converts field voltage or current-loop signals for the Regent Safetybus system.

1

Supports selectable differential and single-ended measurement topologies

2

Accepts multiple voltage and current-loop range configurations

3

Performs channel conversion for the Regent Safetybus application

4

Supports controlled field calibration and redundant input architectures

ENGINEERING NOTE

Set the T3420A mode and range jumpers before installation, then verify the matching termination-block wiring and external 250 ohm current shunts where current inputs are used. Calibrate the installed channel set with the approved extender and test equipment before returning the loop to service.

Industrial application matrix

Four source-supported operating contexts for this exact product.

Process transmitter acquisition

Receives engineered process measurements from voltage or current-loop transmitters in a Regent safety system.

Differential sensor measurement

Provides paired input measurement where the project uses differential field signaling.

Multi-channel single-ended monitoring

Concentrates a larger set of referenced analog points in one configured module.

Redundant analog input service

Supports matched module and sensor arrangements used for fault-tolerant analog acquisition.

MODEL-SPECIFIC ACCEPTANCE FOCUS

Confirm the T3420A article marking, Regent chassis assignment, hardware jumper pattern, termination block, external current shunts, field-loop power, shield grounding, application scaling and calibration record before commissioning.

Related-series navigation

Eight verified Apter Power product pages, kept separate from the manufacturer source record.

RELATED APTER POWER SERIES PAGES	
01	T8830C Apter Power product page
02	T8431C Apter Power product page
03	T8403C Apter Power product page
04	T9110 Apter Power product page
05	T8151B Apter Power product page
06	T9852 Apter Power product page
07	T9100 Apter Power product page
08	T9193 Apter Power product page

Navigation links only - not manufacturer evidence for technical parameters.

SOURCE RECORD

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