

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

ICS Triplex T8431

TMR analog input module



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

ICS Triplex T8431 is a Trusted TMR analog input module that receives signals from forty sourcing field devices. Each channel uses three independent processing paths, with diagnostic testing and configurable line monitoring to identify input faults and field-wiring problems.

01

PRODUCT IDENTITY AND SPECIFICATIONS

Product model	T8431
Input channels	40 TMR analog inputs
Backplane supply	20 to 32 V DC
Maximum power dissipation	20 W
Input current range	0 to 22 mA
Input voltage range	0 to 5.5 V DC
FTA input impedance	250 ohms
Module input impedance	16.967 kohms; effective impedance halves with partner modules

02 TECHNICAL DATA

Input resolution	3.906 microamps per LSB
Safety accuracy	+/-200 microamps
SOE event resolution	1 ms
SOE timestamp accuracy	+/-10 ms
Channel-to-channel isolation	None
Operating temperature	0 to +60 degrees C
Storage temperature	-25 to +70 degrees C
Humidity	10 to 95%, non-condensing

03 APPLICATION AND CONFIGURATION

- Forty current-sink inputs connect compatible sourcing field devices.
- Channel-specific line monitoring requires appropriate thresholds and field components.
- External barriers and the complete validated safety design remain essential where required.

04 OFFICIAL DOCUMENTATION

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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

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