

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

ICS Triplex T8431C

Conformal-coated TMR analog input module



INPUTS	SUPPLY	RANGE	OPTION
40 TMR channels	20-32 V DC	0-22 mA	Conformal coated

ICS Triplex T8431C is the conformal-coated version of the Trusted 40-channel TMR analog input module. It receives signals from sourcing field devices, with diagnostics and configurable line monitoring for each channel, rather than providing analog output or standalone process control.

01

PRODUCT IDENTITY AND SPECIFICATIONS

Product model	T8431C
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 value halves with partner modules

02 TECHNICAL DATA

Input resolution	3.906 microamps per LSB
Safety accuracy	+/-200 microamps
Calibration accuracy	+/-0.15%; follow T8094 calibration-maintenance guidance
SOE event resolution	1 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

- Receives sourcing field-device signals through the documented termination and cable arrangement.
- Each channel has configurable line monitoring; input thresholds and scaling remain engineering responsibilities.
- Conformal coating does not provide intrinsic safety. Use the required external barriers and safety procedure.

04 OFFICIAL DOCUMENTATION

ICSTT-RM273Q-EN-P | August 2021 | PD-T8431 Issue 19

Product overview: p. 9; installation: pp. 17-19; maintenance: pp. 33-35; specifications: pp. 37-38. C option: ICSTT-CT004L, p. 2.

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

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM