

AADVANCE SAFETY CONTROLLERS

Product Data Sheet

T9431

Eight-channel analog input module

ANALOG INPUT CHANNELS	NOMINAL INPUT RANGE	MAXIMUM MEASUREMENT RANGE	CONVERTER RESOLUTION
8	4 to 20 mA DC	0 to 24 mA DC	15 bits

ICS Triplex T9431 is an eight-channel analog input module for the AADvance safety-control platform. It acquires 4 to 20 mA field signals for process monitoring and safety functions in the documented controller configuration, with isolated channels and support for compatible analog-input termination assemblies.

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VERIFIED TECHNICAL DATA

Analog input channels	8
Nominal input range	4 to 20 mA DC
Maximum measurement range	0 to 24 mA DC
Converter resolution	15 bits
Least significant bit	0.98 microA
Unfiltered sample interval	6 ms
Calibrated accuracy at 25 deg C	±0.05 mA
Temperature drift	0.01% + 0.3 microA per deg C
Safety accuracy limit	200 microA
Module supply	Redundant 24 V DC nominal

ADDITIONAL PRODUCT DATA

Module power dissipation	3.3 W
Channel isolation withstand	±1.5 kV DC for 1 minute
Default normal current band	3.8 to 22.0 mA
Self-test interval	<1 hour, system dependent
HART command support	Command 03

DOCUMENTED USE SETTINGS

Oil and Natural Gas Production and Processing: Oil Production and Processing.

Chemical Manufacturing and Petrochemical Production Processing: Chemical Production and Processing.

Electricity Generation and Industrial Energy Production: Thermal Electric Power Generation.

SYSTEM COMPATIBILITY

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OFFICIAL SOURCE

ICS Triplex AADvance safety controllers official technical documentation

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM