

APTER POWER PRODUCT GUIDE

MAI32MAD

32-Channel Analog Input Module

Rockwell Automation ICS Triplex MAI32MAD is a thirty-two-channel Trusted analog input module for 0-10 VDC field signals. Its triple modular redundant architecture presents voted measurement data to the Trusted system.

Manufacturer	Rockwell Automation / ICS Triplex
Model	MAI32MAD
Product type	32-Channel Analog Input Module
Product family	ICS Triplex Trusted
Country	Sweden
HS code	8537101190
Shipping origin	Xiamen, Fujian, China

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

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SCAN FOR PRODUCT & QUOTE

1. Product overview and identity

- Acquires thirty-two voltage measurements
- Uses triplicated input processing for fault tolerance
- Performs monitored analog conversion
- Transfers validated channel data to the Trusted controller

Model configuration

Complete model	MAI32MAD
Product type	32-Channel Analog Input Module
System family	ICS Triplex Trusted

2. Technical specifications

Input channels	32
Architecture	Triple modular redundant
Input range	0-10 VDC
Input overrange	+/-40 VDC
Resolution	12 bit
Accuracy at 25 C	+/-0.04% full signal range
Stability	+/-20 ppm/C
ADC type	Successive approximation, monotonic
Nominal sample rate	40 ms
Input impedance	>20 MOhm
Power-off impedance	>12 kOhm
Common-mode range	+/-11 VDC
System-to-channel isolation	1 kVDC
Channel-to-channel isolation	+/-15 VDC
Power consumption	7.5 W

3. Functions, applications and components

Safety-related process measurements

Acquires thirty-two voltage measurements

Turbine auxiliary analog monitoring

Uses triplicated input processing for fault tolerance

Burner management analog inputs

Performs monitored analog conversion

Critical package-unit instrumentation

Transfers validated channel data to the Trusted controller

Associated system components

- Trusted module carrier
- field termination assembly
- Trusted controller
- engineered 0-10 VDC transmitters

4. Engineering FAQ and source record

What input range is assigned to MAI32MAD?

MAI32MAD is the 0-10 VDC variant in the Trusted analogue-input family.

How many channels does MAI32MAD process?

It processes thirty-two analog input channels.

Why does MAI32MAD use TMR architecture?

The triplicated paths support fault detection and voted measurement processing in the Trusted system.

What isolation check applies to MAI32MAD?

Confirm the system-to-channel and channel-to-channel limits against the installed field circuit.

Official source

Rockwell Automation Trusted Analogue Input Module technical manual ICSTT-RM419
https://literature.rockwellautomation.com/idc/groups/literature/documents/rm/icstt-rm419_-en-p.pdf

ASK FOR QUOTE

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