

TRICON 0-5 VDC ANALOG INPUT

Product Data Sheet

3700A

TMR Analog Input Module

INPUTS	RANGE	RESOLUTION	UPDATE
32	0-5 VDC	12 bit	55 ms

Triconex 3700A is a 32-point differential, DC-coupled TMR Analog Input Module for 0-5 VDC signals, with 12-bit conversion and +6% over-range measurement.

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VERIFIED TECHNICAL DATA

Product type	TMR Analog Input Module
Input signals	32 differential, DC-coupled
Input update rate	55 ms
Resolution	12 bits
Accuracy	<0.15% FSR, 0 to 60 C
Input resistance	30 MOhm minimum
Common-mode rejection	-80 dB typical, DC-100 Hz
Common-mode range	-12 V to +12 V peak

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ADDITIONAL VERIFIED DATA

Voltage range	0-5 VDC; 0-5.3 VDC over-range
Current range	0-20 mA with 250 Ohm shunt
Slot keying	I/O slot keys: top 003, bottom 006
Source	Tricon v9-v10 Planning and Installation Guide

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ENGINEERING NOTES

- Use the separate External Termination Panel and documented cable interface.
- Connect differential, DC-coupled 0-5 VDC inputs or 0-20 mA loops with the specified 250 Ohm shunt.
- Keep channel common-mode voltage within -12 V to +12 V peak.
- Verify grounding, shielding and channel polarity before inserting the module.
- Verify PASS, FAULT and ACTIVE module-status indicators.
- Check representative channel values against a known input source.
- Confirm scaling for 0-5 VDC or 0-20 mA operation and the +6% over-range requirement.
- Investigate sustained channel mis-compares before returning the system to service.

Verify the exact model, slot keying, field wiring and controlled application before replacement.