

TRICON ISOLATED ANALOG INPUT

Product Data Sheet

3703E

Isolated TMR Analog Input Module

INPUTS	RANGE	RESOLUTION	UPDATE
16 isolated	0-5 / 0-10 VDC	12 bit	<50 ms

Triconex 3703E is a 16-point isolated TMR Analog Input Module. Each differential channel can be configured in TriStation for 0-5 VDC or 0-10 VDC operation with 12-bit conversion.

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VERIFIED TECHNICAL DATA

Product type	Isolated TMR Analog Input Module
Input signals	16 differential, isolated
Input update rate	<50 ms
Resolution	12 bits
Accuracy	<0.15% FSR, 0 to 60 C
Input resistance	30 MOhm minimum
Common-mode rejection	-90 dB at 60 Hz minimum
Common-mode range	+/-200 VDC maximum

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ADDITIONAL VERIFIED DATA

Input voltage range	0-5 VDC or 0-10 VDC
Logic power	<15 W
Slot keying	I/O slot keys: top 005, bottom 006
Source	Tricon v9-v10 Planning and Installation Guide

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ENGINEERING NOTES

- Use isolated differential input wiring and the documented field termination assembly.
- Configure every channel for 0-5 VDC or 0-10 VDC in TriStation before commissioning.
- Keep channel-to-channel and channel-to-ground common-mode voltage within +/-200 VDC.
- For 0-20 mA loops, use the documented 250 Ohm shunt resistor and verify polarity.
- Verify PASS, FAULT and ACTIVE module-status indicators.
- Apply known signals to representative channels and confirm scaling and polarity.
- Check open-detect direction and the +6 percent over-range behavior in the application.
- Investigate sustained channel mis-compares before returning the system to service.

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