



3700

Triconex 32-Point 0-5 VDC Analog Input Module

Product scope

- Acquires thirty-two differential 0–5 VDC signals.
- Provides twelve-bit conversion with a 55 ms input update rate.
- Uses TMR channel processing and supports online hot-spare replacement.
- This ordering code identifies the original 3700 voltage-input configuration, not the extended 3700A variant.

Official source basis

Schneider Electric / Triconex Tricon Product Guide, Analog Input Module Specifications.

Technical facts are limited to the identified manufacturer documentation and the exact ordering configuration shown above.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Triconex 3700	

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3700 technical profile

Triconex 3700 brings thirty-two differential 0–5 VDC measurements into a triplicated Tricon input architecture. Each channel is DC coupled and converted at twelve-bit resolution for voting and application processing.

The module suits dense voltage acquisition where channel-to-channel isolation is not required. Diagnostic routines monitor each internal leg so a single channel fault can be reported without immediately losing the complete module function.

Confirm that the installed hardware is 3700 rather than 3700A, preserve the 0–5 V scaling and use a termination assembly suited to the field signal method. Common-mode voltage and source grounding must remain inside documented limits.

Selection notice

3700 inputs are differential but not isolated from one another; review common-mode voltage and source grounding before reconnecting transmitters.

Technical specifications

Input points	32 differential
Voltage range	0 to 5 VDC
Input coupling	DC coupled
Architecture	TMR analog input
Channel isolation	Not isolated
Input update rate	55 ms
Resolution	12 bit
Accuracy	<0.15% of full scale, 0 to 60 °C
Input resistance	30 MΩ minimum, powered
Power-off resistance	30 kΩ typical
Common-mode rejection	-80 dB typical, DC to 100 Hz
Common-mode range	-12 to +12 V peak
Leg-to-leg isolation	200 kΩ typical
Normal-mode rejection at 8 Hz	-3 dB
Normal-mode rejection at 60 Hz	-17 dB
Normal-mode rejection at 120 Hz	-23 dB
Overrange protection	150 VDC / 115 VAC continuous
Current measurement option	0 to 20 mA with 250 Ω shunt
Module indicators	PASS / FAULT / ACTIVE
Color code	Yellow
Operating temperature	0 to 60 °C
Storage temperature	-40 to 85 °C
Relative humidity	5 to 95%, non-condensing
Installation environment	Industrial control enclosure

Application and integration notes

Performance & Efficiency	• The converter resolves each input with twelve-bit precision. • All thirty-two channels update on a documented 55 ms cycle. • Accuracy is specified below 0.15% of full scale from 0 to 60 °C.
Monitoring	• Independent channel data is passed through triplicated input processing before control use. • Front indicators report PASS, FAULT and ACTIVE module conditions. • Diagnostic coverage permits operation with a single internal channel fault while maintenance is planned.
Environmental Ratings	• The analog-input module is designed for enclosed industrial Tricon installations. • Documented system operation extends to 60 °C ambient under the specified chassis conditions. • Non-condensing humidity and clean cabinet airflow protect low-level measurement stability.

Request product documentation and quotation support

Send the complete label, system configuration, quantity and destination.



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