3351S2

Triconex 32-Point Analog Input Module

Product scope

- Accepts analog measurements through model-specific Tri-GP baseplates.
- Supports triplicated conversion and voted controller data.
- Works with direct, conditioned, hazardous-location and HART interface options.
- This product is the 3351S2 analog-input module common to several Tri-GP v2 input TriPaks.

Official source basis

Invensys Triconex, Planning and Installation Guide for Triconex General Purpose v2 Systems, Analog Input Components.

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 3351S2	

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3351S2 technical profile

Triconex 3351S2 provides the analog acquisition engine used across several Tri-GP v2 input assemblies. The selected baseplate determines whether the field interface is direct analog, RTD/thermocouple conditioning, hazardous-location termination or HART multiplexing.

Independent channel electronics sample field measurements and pass values through the triplicated controller path for application use. Diagnostic routines monitor channel operation so maintenance can distinguish a localized internal problem from a complete loss of the input function.

Order the module only after the installed baseplate and signal-conditioning arrangement are identified. Sensor type, range, grounding, shield termination and any HART multiplexer must remain consistent with the validated loop design.

Selection notice

3351S2 range and sensor behavior are defined by its baseplate and conditioning modules; verify those assemblies before moving any analog loop.

Technical specifications

Input architecture	Triplicated analog acquisition
Module family	Tri-GP v2 analog input
Direct baseplate	2351S2
RTD/TC/4-20 mA baseplate	2352S2
Hazardous-location baseplate	2352AS2
HART baseplate kit	2354S2
Hazardous HART kit	2354AS2
HART multiplexer	Triconex 4850
Multiplexer part	1600106-001
Temperature ETP kit	9764-510F
Channel processing	Three independent paths
Controller data	Voted at main processors
Online diagnostics	Continuous
Hot-spare support	Supported by system configuration
Module keying	Mechanical
Operating temperature	0 to 60 °C
Storage temperature	-40 to 85 °C
Humidity	5 to 95%, non-condensing
System architecture	Triple Modular Redundant

Application and integration notes

Performance & Efficiency	• Triplicated measurement paths provide voted analog data to the controller application. • Channel diagnostics identify internal abnormalities while preserving the supported fault-tolerant behavior. • Useful accuracy depends on the selected range, conditioning module, sensor wiring and grounding practice.
Configuration	• The project channel range must agree with the installed baseplate and conditioning hardware. • RTD, thermocouple and 4–20 mA service use the documented 2352S2 termination arrangement. • HART installations require the matching baseplate, multiplexer and communication wiring.
Environmental Ratings	• Standard modules operate inside an industrial enclosure under the Tri-GP environmental limits. • Hazardous-location loops require the specifically approved baseplate or external termination panel. • Shielding, protective earth and separation from noisy conductors protect low-level analog measurements.

Request product documentation and quotation support

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

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