

Yokogawa SAI143-S63

Sixteen-Channel Isolated Analog Input Module

Product scope

- Acquires sixteen 4 to 20 mA process signals.
- Uses module isolation between field inputs and system electronics.
- Represents the standard, non-explosion-protected S63 execution.
- Supports ISA G3 service across the documented temperature range.

Manufacturer source

Yokogawa General Specifications GS 32Q06K30-31E for Analog I/O Modules (for FIO).

This English product record summarizes manufacturer-verified function, operating principle, application and exact-model matching requirements.

Request a fast quote	Product reference	
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Yokogawa SAI143-S63

Sixteen-Channel Isolated Analog Input Module

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

Rated input range	4 to 20 mA
Permissible input range	0 to 25 mA
Input channels	16 channels with module isolation
Power-on input impedance	250 ohm plus current-dependent protection drop
Power-off input impedance	500 kohm minimum
Maximum protection-circuit voltage drop	0.45 V
Rated accuracy	+/-16 microampere over 1 to 23 mA
Data update period	40 ms
Temperature drift	+/-16 microampere per 10 deg C
Transmitter supply at 20 mA	16.15 V minimum
Transmitter supply at 0 mA	26.4 V maximum
Transmitter supply current limit	25 mA
Channel wiring selection	2-wire / 4-wire set individually by pins
Withstand voltage	1.5 kV AC for 1 minute between input and system
5 V system consumption	320 mA maximum
24 V system consumption	550 mA maximum
Weight with signal cable adapter	Approximately 0.39 kg
Module dimensions	32.8 x 130 x 124 mm excluding projections
Connection execution	Signal cable interface adapter
Explosion-protection execution	No explosion protection
Environmental execution	ISA Standard G3, -20 to +70 deg C
HART communication	Not included in standard -S execution
Redundant configuration	Supported with an identical additional module
Zener barrier restriction	Zener barriers are not permitted; use an isolation barrier where required

Official references

- Yokogawa General Specifications GS 32Q06K30-31E for Analog I/O Modules (for FIO).
- Official source: <https://web-material3.yokogawa.com/GS32Q06K30-31E.pdf>

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Function

The module acquires sixteen 4 to 20 mA field signals for the Yokogawa safety control system.

Operating principle

Each channel converts its loop current for system processing while the module-level isolation separates the field-input section from the control electronics.

Application

The S63 execution is intended for signal-cable interface-adapter installations without explosion protection and with the documented G3 environmental rating.

Replacement boundary

Verify the complete S63 suffix, terminal or cable adapter, field-transmitter power selection and system software support before replacement.



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