AAI143-S00 S1

Yokogawa / isolated FIO analog input module

Yokogawa AAI143-S00 S1 is an isolated FIO analog input module for 4–20 mA process measurements in a configured CENTUM FIO station.

Overview

AAI143-S00 S1 belongs to the AAI143 isolated analog-input family. Sixteen 4–20 mA process loops are acquired into the FIO station, with isolation between the input and the system. Each channel is assigned in the configured control project.

The AAI143 reference specifies ±16 µA analog accuracy, a 10 ms data-update period and 24 mA allowable input. A setting pin selects a two-wire or four-wire transmitter arrangement by channel. Loop supply and the complete field wiring path must be evaluated for the selected transmitter.

Technical specification matrix

I/O role	Analog input
Reference design	AAI143-S
Channels	16
Signal	4–20 mA
Allowable input	24 mA
Accuracy	±16 µA
Data update	10 ms
Isolation	Input-to-system isolation
Transmitter wiring	2-wire or 4-wire setting by channel

Applications and system fit

Process transmitter acquisition Read isolated 4–20 mA signals from compatible pressure, flow, level or other process transmitters.	**Mixed transmitter wiring** Support channel-specific two-wire or four-wire connections in the approved terminal arrangement.
Control-loop feedback Provide measured analog values to regulatory control and alarm logic in the FIO station.	**Analog I/O restoration** Replace a matched input module while preserving channel scaling, transmitter wiring and redundancy where used.

Product precautions

Set transmitter mode Record and restore each two-/four-wire selection.	**Review loop supply** Check current and voltage drop at the field transmitter.
Preserve scaling Save channel ranges and alarm configuration.	**Protect the process** Use approved loop bypass and isolation procedures.

Source and application boundary

Yokogawa GS 33J60F60-01EN, Analog I/O Modules for FIO.

AAI143-S technical figures are reference-design values. Match the complete offered style, host and terminal configuration before applying them.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

Yokogawa VI702 S1	Yokogawa ADV551-P03 S2

Apter Power | Technical enquiry

sales13@apterpower.com | +86 18030235313

Send the complete model and installed-system details when requesting a quotation.