ADV551-P00 S2

01 / Product identity and control context

Digital Output Module

Yokogawa ADV551-P00 S2 is a CENTUM FIO digital output module. The ADV551-P design provides 32 current-sink outputs with status, pulse-width and time-proportioning functions.

Key characteristics

Product type	Digital output module
Base-design channels	32 current-sink outputs
Applied voltage	24 V DC base rating
Functions	Status, pulse width and time-proportioning output

Functional relationship



Complete identity

Match ADV551-P00 S2, the style marking and installed terminal or cable assembly.

Configuration boundary

The technical data describes the ADV551 base design. Match the complete ADV551-P00 S2 marking, style and installed configuration; do not transfer later suffix approvals or ratings automatically.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

ADV551-P00 S2

02 / Technical characteristics

Hardware and functional data

Product series	CENTUM FIO
Reference design	ADV551-P
Base-design output channels	32
Output format	Current sink
Base applied voltage	24 V DC
Base external supply range	20.4 to 26.4 V DC
Base maximum channel load	100 mA/channel at 26.4 V

Interfaces and operating conditions

Maximum ON-state voltage	2 V DC (base design)
Maximum OFF-state leakage	0.1 mA (base design)
Output functions	Status / pulse width / time-proportioning
Base status response	3 ms maximum
Base pulse width	8 ms to 7200 s
Field connections	Pressure-clamp terminal / AKB331 / MIL cable

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03 / Application and integration contexts

Discrete process commands

Switch compatible 24 V DC field loads from the CENTUM sequence application using the current-sink output arrangement.

One-shot pulse actuation

Use configured pulse-width outputs for loads requiring timed commands. Check the pulse duration, resolution and permissible field current.

Load relationship

Verify sink-output polarity, 24 V DC field supply and the current required by each load.

Time-proportioning control

Apply time-proportioning ON/OFF output where the process and load support it. Retain the correct configured channel pattern.

Redundant output systems

Use the supported redundant arrangement only with a suitable module pair and function assignment. Mixed per-channel patterns have separate restrictions.

Function pattern

Record status, pulse-width or time-proportioning assignment, pulse settings and redundancy arrangement.

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04 / Installation and release decisions

Check load polarity

Use wiring appropriate to current-sink outputs and verify field-supply polarity before energization.

Respect channel loading

The base-design limit is 100 mA per channel at 26.4 V. Include actual load demand and any inductive switching requirements.

Protect relay loads

Fit the required diode when driving a DC relay. Verify the field load and protection arrangement together.

Preserve output mode

Retain the approved channel pattern and timing. Do not assume every mixed pattern supports redundant operation.

Review terminal and cable ratings

Match pressure-clamp, AKB331 or MIL cable connections to the installed system. Cable ratings affect the complete connection specification.

Validate controlled outputs

Test outputs under a safe process condition and check pulse or time-proportioning behavior before final release.

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05 / Lifecycle, evidence and related portfolio

Lifecycle status

The current manufacturing and service-support phase for this complete offered reference has not been confirmed.

Supply boundary

Apter Power availability and dispatch are confirmed separately from the manufacturer lifecycle phase.

Technical basis

Yokogawa Digital I/O Modules (for FIO), GS 33J60F70-01EN, 7th edition.

Related product references

Yokogawa SB401-10

Yokogawa ADV151-P00 S2 ATD5A-00

Yokogawa ADV151-P00 S2

Yokogawa AMM12T S2

Navigation only; no substitute or accessory compatibility is implied.

Offered-unit verification

Compare the complete label, connectors, mounting arrangement and applicable hardware/software revision. Confirm included components and accompanying documents in the quotation.

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