ADV161-P00 S2

Yokogawa / FIO digital input module

Yokogawa ADV161-P00 S2 is an FIO digital input module for configured CENTUM FIO discrete-signal service.

Product identity and system role

ADV161-P00 S2 is a digital-input module in Yokogawa FIO. The ADV161-P reference provides 64 isolated 24 V DC input points for discrete field states. The installed terminal and wiring arrangement determine how contacts and external supplies are connected to those points.

The referenced ON threshold is 20–26.4 V DC and the OFF threshold is 5 V DC or below. Rated input current is 2.5 mA ±20% per channel and status response is 8 ms maximum. These values describe the ADV161-P reference; the full P00 S2 execution still requires host and style matching.

Verified technical characteristics

I/O role	Digital input
Reference design	ADV161-P
Channels	64 isolated inputs
Input nominal voltage	24 V DC
ON voltage	20–26.4 V DC
OFF voltage	5 V DC or less
Rated input current	2.5 mA ±20% per channel
Status response	8 ms maximum

Engineering context

Discrete equipment status

Acquire run, ready or trip contacts for approved sequence logic.

Limit and permissive signals

Bring field switch states into the configured FIO input image.

Remote I/O maintenance

Restore the same input map in a matching FIO node without disturbing adjacent channels.

Redundant input arrangements

Use an approved module pairing where the installed node and control project support redundancy.

Configuration and verification

Check the contact circuit: Verify field supply, common and contact polarity.

Preserve the channel map: Record every affected input assignment before removal.

Review host support: Match the node, style and terminal hardware.

Protect interlocks: Use the approved maintenance bypass and test procedure.

Selected engineering questions

How can an input stuck ON on ADV161-P00 S2 be diagnosed?

Check field voltage at the terminal, contact state, common wiring, channel assignment and module diagnostics.

How should contact bounce be assessed for ADV161-P00 S2?
Review the field device and configured logic filtering; the module response time alone does not define process debounce.

What is the effect of a 5 V or lower signal on ADV161-P00 S2?
It is within the documented OFF-voltage condition for the ADV161-P input reference.

Can ADV161-P00 S2 accept arbitrary AC contact voltage?
No. The documented reference is a 24 V DC input. Check the installed contact and supply design.

How should redundant input use of ADV161-P00 S2 be verified?
Confirm the host node supports the intended pair and test both configured paths under the approved system procedure.

What records should be saved before exchanging ADV161-P00 S2?
Save the 64-channel assignment, field wiring, common connections and interlock logic references.

Source and application boundary

Yokogawa GS 33J60F70-01EN, Digital I/O Modules for FIO.

ADV161-P family values describe the documented reference design; confirm style, terminal and host applicability to the complete offered marking.

Related product references

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

Yokogawa VI702 S1	Yokogawa ADV551-P03 S2
Yokogawa AAT141-S00 S2	Yokogawa AAT141-S00

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