Yokogawa ADV151-P00 S2 ATD5A-00

32-Channel Digital Input Module with KS Cable Interface Adapter

01 / MODULE AND ADAPTER PACKAGE ARCHITECTURE

Yokogawa ADV151-P00 S2 with ATD5A-00 is a coordinated assembly, not one integrated device. ADV151 performs thirty-two-channel digital input acquisition; ATD5A-00 adapts that field connection into the dedicated AKB331 cable path for external termination.

Field terminal or relay board → **ATD5A-00 and AKB331** → **ADV151-P00 S2 input module**

Two separately identified components

The input module and KS cable interface adapter retain their own tags, inspection points and replacement decisions.

One documented signal path

ATD5A and AKB331 carry the thirty-two inputs and common conductors to the external termination hardware.

Electrical limits remain with ADV151

The adapter does not change the module input thresholds or channel grouping.

Architecture controls compatibility

A similar connector or terminal board does not prove that another adapter/cable path is interchangeable.

Module identity	ADV151-P00 S2
Adapter identity	ATD5A-00
Dedicated cable	AKB331
Remote termination	AED5D or documented compatible relay-board application

Ordering boundary

Treat the two tags as a package scope while preserving each component as a separate item in the maintenance record.

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Input channels	32
Rated input	24 V DC sink/source
ON voltage	18 to 26.4 V DC
OFF voltage	5.0 V DC or less
Input current	4.1 mA +/-20% per channel
Maximum input	30.0 V DC
Channel grouping	Common every 16 channels
Module demand	Maximum 500 mA at 5 V DC

Two common groups

Inputs 1-16 and 17-32 retain separate common positions.

One polarity rule

Externally supplied 24 V DC for both groups must use the same polarity.

System isolation only

The published isolation is the input-to-system boundary, not an invented channel-to-channel claim.

Adapter is electrically passive in this scope

ATD5A routes the documented signals; it does not create new input thresholds.

Known OFF	At or below 5.0 V DC
Known ON	Within 18 to 26.4 V DC
Outside permitted band	Trace supply, common, terminal, cable and configuration
Unknown P00 meaning	Retain the tag; do not decode it from a later P5x table

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Module-side interface	ADV151 MIL connection
Adapter	ATD5A-00 KS cable interface
Dedicated cable	AKB331
Remote board	AED5D
Relay-board applications	ARM15A / ARM15B / ARS15M as documented
Signal groups	Inputs 1-16 and 17-32 plus common conductors

Cable ends need independent labels

Mark the module-side and field-side ends so the path cannot be reversed or moved to the wrong redundant side.

Connector condition affects all points

Damage or contamination at one shared interface can disturb multiple channels.

External board identity matters

The adapter does not make every remote board compatible; preserve the installed terminal or relay-board tag.

CBSE and board details stay design-specific

Use only the documented board drawing for any cable-disconnect detection or short-cable feature.

Path record

Before removal	Tag module, adapter, both cable ends and board position.
During inspection	Check retention, pins, strain relief and contamination.
Before energization	Verify complete continuity and both common polarities.
After commissioning	Retain the as-left path with channel test evidence.

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Remote terminal-board wiring	Valid when the approved design uses ATD5A, AKB331 and a compatible board.
Relay-board interface	Valid only for a documented board and complete signal map.
Direct pressure-clamp replacement	Not equivalent; ATB5S/ATB5D use a different termination architecture.
ADV551 output use	Not equivalent; ADV551 is an output module despite sharing adapter options.
ADV161 64-channel use	Not equivalent; channel count, cable and electrical data differ.

Package fit

Match all components, not only the ADV151 module.

Field fit

Match channel count, common grouping and external supply polarity.

Mechanical fit

Confirm adapter retention and the exact cable connectors.

System fit

Confirm node, slot, database and any redundant pair.

Release decision

All identities confirmed	Proceed with controlled restoration and testing.
One identity missing	Hold the assembly and obtain tag or drawing evidence.
Cable path changed	Require engineering review before commissioning.
Unexplained state remains	Keep affected logic in maintenance control.

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Verified module role	32-channel 24 V DC isolated digital input
Verified adapter role	KS cable interface for external termination
Verified cable	AKB331
Verified channel rule	Two 16-channel commons with identical polarity
Excluded assumption	ATD5A is not integrated signal-processing hardware

Technical reference record

Yokogawa Digital I/O Modules

GS 33J60F50-01EN; selected pages 1, 6 and 8 confirm ADV151 input data, physical form and the /D5A00 ATD5A option.

Related Apter Power catalog references

Catalog navigation only. These entries do not establish compatibility, substitution or approval of a changed installation.

Yokogawa ADV151-P00 S2 | View Yokogawa ADV151-P00 S2 page

Yokogawa EC401-10 S2 | View Yokogawa EC401-10 S2 page

Yokogawa ATA4S-00 S2 | View Yokogawa ATA4S-00 S2 page

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Send the exact model, quantity and requested condition for a quotation.

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