

ADV161-P50 S2

64-Channel Isolated Digital Input Module

Yokogawa ADV161-P50 S2 is a 64-channel 24 V DC isolated digital input module for CENTUM field control stations. The -P execution supports pushbutton-input operation through the documented connector and cable arrangement.

BRAND	Yokogawa	FAMILY	Yokogawa CENTUM VP field control station
PART	ADV161-P50 S2	SYSTEM ROLE	Acquires sixty-four isolated digital inputs

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ADV161-P50 S2

MANUFACTURER SOURCE RECORD

Digital Input Modules ADV151 and ADV161 General Specifications
Yokogawa GS 33J60F70-01EN

Product Overview

SYSTEM FUNCTION

Yokogawa ADV161-P50 S2 is a 64-channel 24 V DC isolated digital input module for CENTUM field control stations. The -P execution supports pushbutton-input operation through the documented connector and cable arrangement.

FUNCTION 1

Acquires sixty-four isolated digital inputs

FUNCTION 2

Separates the inputs into two documented groups

FUNCTION 3

Supports the selected pushbutton-input execution

FUNCTION 4

Integrates with the CENTUM field control station

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Yokogawa CENTUM VP field control station
Primary interface	Acquires sixty-four isolated digital inputs
Engineering context	The module connects field signals through the documented MIL connector and AKB337 cable arrangement. Commissioning verifies the slot, two input groups, field voltage, pushbutton-input execution, channel map and CENTUM diagnostics.
Commissioning duty	Simulate each assigned input and confirm the intended CENTUM logic response.

TECHNICAL NOTE

Record both 32-channel groups, MIL connectors, AKB337 cable positions, field commons and pushbutton-input configuration before removing ADV161-P50 S2. Restore the approved FCS slot and I/O definition, then simulate every assigned input and confirm normal diagnostics.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Input channels	64	Input ON	20-26.4 V DC
Input groups	2 groups of 32	Input OFF	5.0 V DC maximum
Nominal input	24 V DC	Input current	2.5 mA +/-20% per channel
Isolation	Isolated channels	Field connector	MIL connector / AKB337 cable

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Yokogawa AFV30D-A41262	Related Apter Power product	View Yokogawa AFV30D-A41262 page
Yokogawa SNB10D-425-CU2T	Related Apter Power product	View Yokogawa SNB10D-425-CU2T page
Yokogawa SNB10D-425-CU2N	Related Apter Power product	View Yokogawa SNB10D-425-CU2N page
Yokogawa S2SC70D-FA412010	Related Apter Power product	View Yokogawa S2SC70D-FA412010 page
Yokogawa ALF111-S50	Related Apter Power product	View Yokogawa ALF111-S50 page
Yokogawa NFBU200-S05-S2	Related Apter Power product	View Yokogawa NFBU200-S05-S2 page
Yokogawa NFCEP100-S05-S3	Related Apter Power product	View Yokogawa NFCEP100-S05-S3 page
Yokogawa AAI841-H00-S2	Related Apter Power product	View Yokogawa AAI841-H00-S2 page

ENGINEERING BOUNDARY

Confirm Yokogawa ADV161-P50 S2, CENTUM host, sixty-four-point map, two groups, 24 V DC field supply, -P pushbutton execution, MIL connectors, AKB337 cables, commons, grounding, I/O definition and point-test results before commissioning.

Applications and Precautions

Common Applications

Process interlock acquisition

Collects documented equipment and permissive states for CENTUM logic.

Pushbutton station inputs

Receives maintained or momentary field commands through the selected execution.

Alarm contact monitoring

Transfers discrete field alarms into the approved FCS I/O map.

Digital input modernization

Restores a 64-point module position with complete point-test evidence.

Product Precautions

- 1

Confirm Yokogawa ADV161-P50 S2 and the assigned CENTUM FCS slot.
- 2

Place the process and affected interlocks in the approved maintenance state.
- 3

Isolate both field groups and apply ESD controls.
- 4

Record all sixty-four channel assignments, commons, MIL connectors and AKB337 cables.
- 5

Confirm the 24 V DC field supply and pushbutton-input configuration.
- 6

Restore the approved FCS hardware and I/O definition.
- 7

Review module recognition, group status and channel diagnostics.
- 8

Simulate each assigned input and confirm the intended CENTUM logic response.

IMPORTANT NOTICE

Confirm Yokogawa ADV161-P50 S2, CENTUM host, sixty-four-point map, two groups, 24 V DC field supply, -P pushbutton execution, MIL connectors, AKB337 cables, commons, grounding, I/O definition and point-test results before commissioning.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	ADV161-P50 S2
Configuration	Review module recognition, group status and channel diagnostics.
Functional release	Simulate each assigned input and confirm the intended CENTUM logic response.

Engineer FAQ

Q1 How should 64 input points be verified for Yokogawa ADV161-P50 S2?

Confirm Yokogawa ADV161-P50 S2, CENTUM host, sixty-four-point map, two groups, 24 V DC field supply, -P pushbutton execution, MIL connectors, AKB337 cables, commons, grounding, I/O definition and point-test results before commissioning.

Q3 What must be preserved for pushbutton input option when servicing Yokogawa ADV161-P50 S2?

Record all sixty-four channel assignments, commons, MIL connectors and AKB337 cables.

Q5 What official check applies to MIL connector cable for Yokogawa ADV161-P50 S2?

Confirm the 24 V DC field supply and pushbutton-input configuration.

Q7 Which diagnostic confirms I/O diagnostics for Yokogawa ADV161-P50 S2?

Review module recognition, group status and channel diagnostics.

Q2 Which record controls two 32-channel blocks on Yokogawa ADV161-P50 S2?

Record both 32-channel groups, MIL connectors, AKB337 cable positions, field commons and pushbutton-input configuration before removing ADV161-P50 S2. Restore the approved FCS slot and I/O definition, then simulate every assigned input and confirm normal diagnostics.

Q4 How is field voltage isolated before work on Yokogawa ADV161-P50 S2?

Place the process and affected interlocks in the approved maintenance state. Isolate both field groups and apply ESD controls.

Q6 How is module slot restored after fitting Yokogawa ADV161-P50 S2?

Restore the approved FCS hardware and I/O definition.

Q8 What proves point-test evidence is accepted for Yokogawa ADV161-P50 S2?

Simulate each assigned input and confirm the intended CENTUM logic response.

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