

ADV161-P50 S2

64-Channel Isolated Digital Input Module

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

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.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Yokogawa article.

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ADV161-P50 S2

Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 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.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	ADV161-P50 S2
Host / carrier	Yokogawa CENTUM VP field control station
Primary system role	Acquires sixty-four isolated digital inputs
Acceptance boundary	Simulate each assigned input and confirm the intended CENTUM logic response.
Source record	Digital Input Modules ADV151 and ADV161 General Specifications

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

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.

- 1 Confirm the 24 V DC field supply and pushbutton-input configuration.
- 2 Restore the approved FCS hardware and I/O definition.
- 3 Review module recognition, group status and channel diagnostics.
- 4 Simulate each assigned input and confirm the intended CENTUM logic response.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

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.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	ADV161-P50 S2
Host match	Yokogawa CENTUM VP field control station
Connection proof	Restore the approved FCS hardware and I/O definition.
Configuration proof	Review module recognition, group status and channel diagnostics.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

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

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

ACCEPTANCE AND RELEASE EVIDENCE

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.

Maintenance Verification and Closeout

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.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
Yokogawa PW401-S2	Related Apter Power product	View Yokogawa PW401-S2 page
Yokogawa A2EE1A-T	Related Apter Power product	View Yokogawa A2EE1A-T page
Yokogawa VF702	Related Apter Power product	View Yokogawa VF702 page
Yokogawa SB311-S1	Related Apter Power product	View Yokogawa SB311-S1 page
Yokogawa EB401-50-S1	Related Apter Power product	View Yokogawa EB401-50-S1 page
Yokogawa ANB10D-427-CU2T	Related Apter Power product	View Yokogawa ANB10D-427-CU2T page
Yokogawa ANB10D-427-CU2N	Related Apter Power product	View Yokogawa ANB10D-427-CU2N page
Yokogawa EC402-51	Related Apter Power product	View Yokogawa EC402-51 page

MANUFACTURER SOURCE RECORD

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

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