

ADV869-P00 S1

CENTUM VP 32-channel digital input and 32-channel digital output module for ST5

Thirty-two digital inputs and thirty-two transistor digital outputs

PRODUCT SNAPSHOT

BRAND

Yokogawa

FAMILY

Yokogawa CENTUM VP I/O

PART

ADV869-P00 S1

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PRODUCT OVERVIEW

Thirty-two digital inputs and thirty-two transistor digital outputs

1

Combines thirty-two inputs and thirty-two outputs

2

Groups channel commons in sets of sixteen

3

Supports timed pulse-width output

4

Connects to ST5 through the KS9 cable

SYSTEM COMPONENTS

CENTUM VP node unit

ST5 terminal board

KS9 external cable

field contacts and 30 VDC loads

TECHNICAL NOTE

Verify ADV869-P00 S1, ST5 terminal-board identity, KS9 cable, sixteen-channel common groups, input thresholds and output load ratings; record all sixty-four channel assignments and test pulse timing before process release.

TECHNICAL DATA

PARAMETER	VALUE
Digital inputs	32
Digital outputs	32
Compatible terminal board	ST5
Isolation	Isolated; common minus every 16 channels
Contact input OFF	100 kohm or more
Contact input ON	200 ohm or less
Minimum short-circuit current	1.25 mA
Voltage input OFF	4.5 to 25 V DC
Voltage input ON	+/-1 V DC, 200 ohm or less

PARAMETER	VALUE
Input contact rating	5 V DC, 20 mA or more
Input response	8 ms
Output device	Transistor contact
Output rating	30 V DC, 100 mA
Output response	16 ms maximum
Pulse width	8 ms to 7200 s
Pulse resolution	8 ms plus 1 ms maximum delay
Current consumption	800 mA maximum at 5 V DC
External cable	KS9

ENGINEERING NOTE

Verify ADV869-P00 S1, ST5 terminal-board identity, KS9 cable, sixteen-channel common groups, input thresholds and output load ratings; record all sixty-four channel assignments and test pulse timing before process release.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GE IC670ALG620	Related industrial automation product	View GE IC670ALG620 page
GE IC670ALG330	Related industrial automation product	View GE IC670ALG330 page
GE IC670ALG320	Related industrial automation product	View GE IC670ALG320 page
GE IC670ALG310	Related industrial automation product	View GE IC670ALG310 page
GE IC670ALG240	Related industrial automation product	View GE IC670ALG240 page
GE IC670ALG230	Related industrial automation product	View GE IC670ALG230 page
GE IC670MFP100	Related industrial automation product	View GE IC670MFP100 page
GE IC670FBI001	Related industrial automation product	View GE IC670FBI001 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Package-machine mixed digital I/O

Combines thirty-two inputs and thirty-two outputs

Valve and interlock station

Groups channel commons in sets of sixteen

Time-proportional actuator command

Supports timed pulse-width output

CENTUM VP I/O replacement

Connects to ST5 through the KS9 cable

PRODUCT PRECAUTIONS

- 1 Verify the complete ADV869-P00 S1 marking and its assigned Yokogawa CENTUM VP I/O position before work.
- 2 Place the connected package-machine mixed digital i/o process in the approved maintenance state.
- 3 Isolate applicable power and thirty-two digital inputs and thirty-two transistor digital outputs field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed CENTUM VP node unit and ST5 terminal board against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended valve and interlock station function and retain the final test result.

ENGINEER FAQ

Q1 Does ADV869-P00 S1 match CENTUM VP node unit in a Package-machine mixed digital I/O installation?

Verify the complete ADV869-P00 S1 marking, the documented Yokogawa CENTUM VP I/O position and the installed CENTUM VP node unit before fitting the assembly.

Q3 Which Yokogawa CENTUM VP I/O records should be captured before removing ADV869-P00 S1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with ADV869-P00 S1 before disconnection.

Q5 Which ST5 terminal board condition should be checked when ADV869-P00 S1 reports an abnormal state?

Check the ST5 terminal board supply, seating and connection first, then compare channel diagnostics with the recorded ADV869-P00 S1 baseline.

Q7 What maintenance evidence is required after ADV869-P00 S1 is used for Time-proportional actuator command?

Retain the nameplate record, corrective action, final diagnostics and a controlled time-proportional actuator command functional-test result for ADV869-P00 S1.

Q2 How should ADV869-P00 S1 be wired when it must combines thirty-two inputs and thirty-two outputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for ADV869-P00 S1; then continuity-test the affected path.

Q4 What controlled test confirms that ADV869-P00 S1 can groups channel commons in sets of sixteen?

Apply the approved field or simulated stimulus, observe the Yokogawa CENTUM VP I/O indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can ADV869-P00 S1 be moved directly into Valve and interlock station without validating field contacts and 30 VDC loads?

No. Confirm the field contacts and 30 VDC loads, revision, connection scheme and Yokogawa CENTUM VP I/O configuration before transferring ADV869-P00 S1 to that duty.

Q8 How should ADV869-P00 S1 be returned to service in CENTUM VP I/O replacement?

Restore power under control, verify supports timed pulse-width output, exercise the intended signal path and release ADV869-P00 S1 only after the Yokogawa CENTUM VP I/O remains in its approved operating state.

SOURCE Yokogawa CENTUM VP digital I/O module general specification | GS 33J60F70-01EN

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