

ADV859-P00 S1

CENTUM VP 16-channel digital input and 16-channel digital output module for ST2

Sixteen digital inputs and sixteen transistor digital outputs

PRODUCT SNAPSHOT

BRAND

Yokogawa

FAMILY

Yokogawa CENTUM VP I/O

PART

ADV859-P00 S1

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PRODUCT OVERVIEW

Sixteen digital inputs and sixteen transistor digital outputs

1

Combines sixteen inputs and sixteen outputs

2

Provides isolated field channels

3

Supports timed pulse-width output

4

Connects to ST2 through the KS2 cable

SYSTEM COMPONENTS

CENTUM VP node unit

ST2 terminal board

KS2 external cable

field contacts and 30 VDC loads

TECHNICAL NOTE

Verify ADV859-P00 S1, ST2 terminal-board identity, KS2 cable, input contact ratings and every transistor load; record all channel assignments and validate response and pulse timing before enabling automatic control.

TECHNICAL DATA

PARAMETER	VALUE
Digital inputs	16
Digital outputs	16
Compatible terminal board	ST2
Isolation	Isolated 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	450 mA maximum at 5 V DC
External cable	KS2

ENGINEERING NOTE

Verify ADV859-P00 S1, ST2 terminal-board identity, KS2 cable, input contact ratings and every transistor load; record all channel assignments and validate response and pulse timing before enabling automatic control.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 84661-55	Related industrial automation product	View Bently Nevada 84661-55 page
Bently Nevada 330880-00-00-000-03-02	Related industrial automation product	View Bently Nevada 330880-00-00-000-03-02 page
Bently Nevada 330101-00-60-90-01-05	Related industrial automation product	View Bently Nevada 330101-00-60-90-01-05 page
Bently Nevada 330104-11-25-10-02-00	Related industrial automation product	View Bently Nevada 330104-11-25-10-02-00 page
Bently Nevada 330102-04-25-10-02-00	Related industrial automation product	View Bently Nevada 330102-04-25-10-02-00 page
Bently Nevada 330910-00-07-05-02-CN	Related industrial automation product	View Bently Nevada 330910-00-07-05-02-CN page
Bently Nevada 330910-00-07-05-02-05	Related industrial automation product	View Bently Nevada 330910-00-07-05-02-05 page
ABB 3HAC5954-1	Related industrial automation product	View ABB 3HAC5954-1 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Compact mixed-I/O station

Combines sixteen inputs and sixteen outputs

Equipment interlock and command panel

Provides isolated field channels

Timed actuator output

Supports timed pulse-width output

CENTUM VP module renewal

Connects to ST2 through the KS2 cable

PRODUCT PRECAUTIONS

- 1 Verify the complete ADV859-P00 S1 marking and its assigned Yokogawa CENTUM VP I/O position before work.
- 2 Place the connected compact mixed-i/o station process in the approved maintenance state.
- 3 Isolate applicable power and sixteen digital inputs and sixteen 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 ST2 terminal board against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended equipment interlock and command panel function and retain the final test result.

ENGINEER FAQ

Q1 Does ADV859-P00 S1 match CENTUM VP node unit in a Compact mixed-I/O station installation?

Verify the complete ADV859-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 ADV859-P00 S1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with ADV859-P00 S1 before disconnection.

Q5 Which ST2 terminal board condition should be checked when ADV859-P00 S1 reports an abnormal state?

Check the ST2 terminal board supply, seating and connection first, then compare channel diagnostics with the recorded ADV859-P00 S1 baseline.

Q7 What maintenance evidence is required after ADV859-P00 S1 is used for Timed actuator output?

Retain the nameplate record, corrective action, final diagnostics and a controlled timed actuator output functional-test result for ADV859-P00 S1.

Q2 How should ADV859-P00 S1 be wired when it must combines sixteen inputs and sixteen outputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for ADV859-P00 S1; then continuity-test the affected path.

Q4 What controlled test confirms that ADV859-P00 S1 can provides isolated field channels?

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 ADV859-P00 S1 be moved directly into Equipment interlock and command panel 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 ADV859-P00 S1 to that duty.

Q8 How should ADV859-P00 S1 be returned to service in CENTUM VP module renewal?

Restore power under control, verify supports timed pulse-width output, exercise the intended signal path and release ADV859-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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