

INDUSTRIAL AUTOMATION PRODUCT

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

IDENTITY	VERIFIED VALUE
Manufacturer	Yokogawa
System family	Yokogawa CENTUM VP I/O
Part number	ADV859-P00 S1
Country	Japan
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Yokogawa product record.

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

Sixteen digital inputs and sixteen transistor digital outputs

FUNCTION 1

Combines sixteen inputs and sixteen outputs

FUNCTION 2

Provides isolated field channels

FUNCTION 3

Supports timed pulse-width output

FUNCTION 4

Connects to ST2 through the KS2 cable

Matched system components

- CENTUM VP node unit
- ST2 terminal board
- KS2 external cable
- field contacts and 30 VDC loads

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	CENTUM VP node unit
Companion hardware	ST2 terminal board
Field connection	KS2 external cable
Primary system function	Combines sixteen inputs and sixteen outputs
Controlled acceptance duty	Compact mixed-I/O station

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	ADV859-P00 S1 / ADV859-P00 S1 recorded
Physical interface	CENTUM VP node unit
Companion check	ST2 terminal board
Functional proof	Combines sixteen inputs and sixteen outputs
Application test	Compact mixed-I/O station

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330162-03-45-45-05-05-94-01	Related industrial automation product	View Bently Nevada 330162-03-45-45-05-05-94-01 page
Bently Nevada 86691-00750-0435-15	Related industrial automation product	View Bently Nevada 86691-00750-0435-15 page
Bently Nevada 200350-02-00-01	Related industrial automation product	View Bently Nevada 200350-02-00-01 page
Bently Nevada 21500-00-12-10-02	Related industrial automation product	View Bently Nevada 21500-00-12-10-02 page
Bently Nevada 21500-00-32-05-02	Related industrial automation product	View Bently Nevada 21500-00-32-05-02 page
GE IC670GBI002	Related industrial automation product	View GE IC670GBI002 page
GE IC670GBI001	Related industrial automation product	View GE IC670GBI001 page
Bently Nevada 330851-04-000-040-10-01-00	Related industrial automation product	View Bently Nevada 330851-04-000-040-10-01-00 page

MANUFACTURER SOURCE RECORD

Yokogawa CENTUM VP digital I/O module general specification

GS 33J60F70-01EN

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