Yokogawa SR1B-045N-1KC

Technical Reference

Yokogawa SR1B-045N-1KC is a legacy DCS I/O module whose complete variant code defines the installed hardware execution.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Interfaces the installed DCS backplane with assigned field channels.

Feature 2

Uses the complete 045N-1KC variant for hardware matching.

Feature 3

Retains channel mapping through the station configuration.

Feature 4

Requires field-power and terminal assignments to be controlled during service.

VERIFIED DATA SNAPSHOT

Module class	DCS I/O
System scope	Legacy Yokogawa CENTUM
Installation	Backplane I/O position
Configuration scope	Channel and field-terminal assignment
Maintenance method	Exact-variant replacement
Product role	DCS I/O Module

SYSTEM RELATIONSHIP

Field connection → **I/O module** → **Rack interface** → **Monitor channel**

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Technical profile

Verified technical values for the complete product string are arranged below for selection and engineering review.

Module class	DCS I/O
System scope	Legacy Yokogawa CENTUM
Installation	Backplane I/O position
Configuration scope	Channel and field-terminal assignment
Maintenance method	Exact-variant replacement

SELECTION ANCHORS

- Interfaces the installed DCS backplane with assigned field channels.
- Uses the complete 045N-1KC variant for hardware matching.
- Retains channel mapping through the station configuration.
- Requires field-power and terminal assignments to be controlled during service.

IMPORTANT NOTICE	Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

CONFIGURATION CONTROL

Configuration identity	Yokogawa SR1B-045N-1KC
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

ADDITIONAL ENGINEERING CHECKS

Which point test is appropriate after fitting Yokogawa SR1B-045N-1KC?	Exercise each used input or output through its documented operating states while observing controller indication and field response.
What final evidence releases Yokogawa SR1B-045N-1KC?	Normal module diagnostics, correct channel values, verified alarms and successful interlock or output tests complete acceptance.

System role and architecture

Field connection → **I/O module** → **Rack interface** → **Monitor channel**

APPLICATION POINTS

Legacy DCS I/O repair

Restores the documented field-interface position.

Channel fault isolation

Separates module faults from field wiring and rack power problems.

Maintenance spare control

Keeps an exact variant available for the installed station.

I/O migration survey

Captures channel function and wiring before system modernization.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional evidence	Record the expected static value, dynamic response and system status.

SR1B-045N-1KC should be matched to the documented system position, companion hardware and retained project configuration before the channel or station is returned to control.

ENGINEERING REVIEW QUESTIONS

What hardware boundary is served by Yokogawa SR1B-045N-1KC?	It provides the installed DCS I/O interface between the station backplane and assigned field channels.
Why must the 045N-1KC portion of Yokogawa SR1B-045N-1KC be retained?	The complete variant code identifies the installed execution and controls replacement matching.
Which records should be captured from Yokogawa SR1B-045N-1KC before removal?	Capture rack and slot, channel map, terminal numbers, external power, commons, shields and configured signal types.
How should field power be treated around Yokogawa SR1B-045N-1KC?	Identify and isolate every field source separately from rack power before disconnecting the module or terminals.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

01	Confirm the entire SR1B-045N-1KC label.
02	Record every used channel and terminal assignment.
03	Place process loops in the approved maintenance state.
04	Isolate field and rack power before disconnecting hardware.
05	Label commons, shields and external power conductors.
06	Inspect backplane and terminal contacts for damage.
07	Restore the retained channel configuration without copying another module.
08	Test each used point, diagnostics, alarms and interlocks before release.

RELEASE EVIDENCE

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

IMPORTANT NOTICE	Confirm the complete SR1B-045N-1KC marking, assigned system position and mating interfaces before installation.

APPLICATION BOUNDARIES

Legacy DCS I/O repair	Restores the documented field-interface position.
Channel fault isolation	Separates module faults from field wiring and rack power problems.
Maintenance spare control	Keeps an exact variant available for the installed station.
I/O migration survey	Captures channel function and wiring before system modernization.

Technical questions and related models

MODEL-SPECIFIC QUESTIONS

What hardware boundary is served by Yokogawa SR1B-045N-1KC?	It provides the installed DCS I/O interface between the station backplane and assigned field channels.
Why must the 045N-1KC portion of Yokogawa SR1B-045N-1KC be retained?	The complete variant code identifies the installed execution and controls replacement matching.
Which records should be captured from Yokogawa SR1B-045N-1KC before removal?	Capture rack and slot, channel map, terminal numbers, external power, commons, shields and configured signal types.
How should field power be treated around Yokogawa SR1B-045N-1KC?	Identify and isolate every field source separately from rack power before disconnecting the module or terminals.
What connector faults can imitate a Yokogawa SR1B-045N-1KC failure?	Bent contacts, incomplete backplane engagement, loose terminal hardware and damaged cable retention can produce channel or module diagnostics.
How is channel configuration restored for Yokogawa SR1B-045N-1KC?	Load or enter the retained module-specific settings and compare every channel with the approved station record.

RELATED MODELS ON APTERPOWER

Yokogawa ADV869-P00 S1	Related product reference. Review the complete ordering string before selection.
Yokogawa NFCP501-W15 S2	Related product reference. Compare the required interface and system position.
Yokogawa CP451-10 S2	Related product reference. Confirm the execution independently for the intended task.

CONFIGURATION AND SELECTION RECORD

Configuration identity	Yokogawa SR1B-045N-1KC
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
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