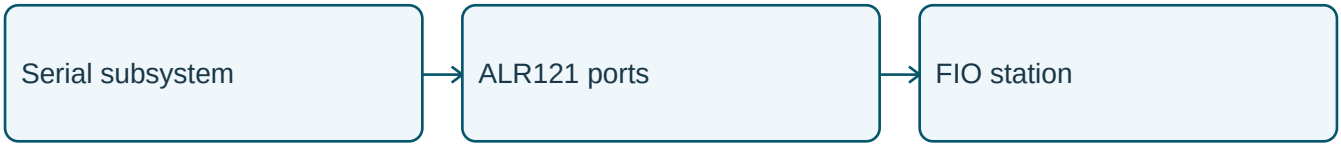
ALR121-S00 S1

01 / System identity and preparation

Yokogawa ALR121-S00 S1 exchanges subsystem data with the field control station through configured serial communication channels, linking devices such as programmable controllers to the control application.



Preparation priorities

Complete identity	Match ALR121-S00 S1, the module revision and both port labels to the existing station.
Host relationship	Verify the FIO node or compact control unit and its host/software prerequisites; ER-node installation has additional firmware conditions.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application boundary

The technical data describes the ALR121 base design. Match the complete ALR121-S00 S1 marking, style and installed configuration; do not transfer later suffix approvals or ratings automatically.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

Complete identity	Match ALR121-S00 S1, the module revision and both port labels to the existing station.
Host relationship	Verify the FIO node or compact control unit and its host/software prerequisites; ER-node installation has additional firmware conditions.
Port configuration	Record RS-422/RS-485 selection, baud rate, parity, stop bits, data format and subsystem data mapping.
Functional acceptance	Check communication with each intended subsystem and verify the returned data against the configured application.

Match the electrical interface

RS-422/RS-485 wiring is different from RS-232C. Do not use the ALR111 D-sub pinout for an ALR121 terminal connection.

Preserve communication settings

Record speed, character length, parity and stop bits. A matching cable alone does not establish a working protocol configuration.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

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03 / Hardware and interface checks

Review field wiring

Use the approved shielded cable and terminal assignment. Preserve the five-terminal port identification and shield arrangement.

Check the host release

Confirm the node, FCS software and any ER-bus firmware prerequisites before installation.

Key hardware references

Serial interface (base design)	RS-422 / RS-485
Communication ports	2
RS-422 topology	Point-to-point
RS-485 topology	Multipoint

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

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04 / Commissioning and diagnostic decisions

Control replacement work

Use approved isolation and ESD procedures. Record terminal connections and channel configuration before disconnecting the module.

Test real data exchange

Verify both ports where used, communication status and application data mapping before returning the subsystem to service.

Acceptance checkpoints

Before energization	Verify the FIO node or compact control unit and its host/software prerequisites; ER-node installation has additional firmware conditions.
Configuration review	Record RS-422/RS-485 selection, baud rate, parity, stop bits, data format and subsystem data mapping.
Functional release	Check communication with each intended subsystem and verify the returned data against the configured application.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

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05 / Service record and technical references

Lifecycle and support

The current manufacturing and service-support phase for this complete offered reference has not been confirmed.

Technical basis

Yokogawa Subsystem Communication Module (for FIO), GS 33Q06Q46-31E, 9th edition.

Applicability

The technical data describes the ALR121 base design. Match the complete ALR121-S00 S1 marking, style and installed configuration; do not transfer later suffix approvals or ratings automatically.

Related portfolio references

Yokogawa PW482-10 S2

Yokogawa SPW482-13

Yokogawa DP97-B

Yokogawa CP451-10

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

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