

APTER POWER INSTALLATION & VERIFICATION REFERENCE

ALF111-S50-S1

Field checklist for four-segment H1 communication and redundancy

ENGINEERING LENS	FOUR-SEGMENT H1 COMMUNICATION AND REDUNDANCY
SYSTEM	Yokogawa CENTUM VP N-IO/FIO
SOURCE CONTROL	Manufacturer-published information only

This separate field reference focuses on four-segment H1 communication and redundancy. It does not replace the current Yokogawa installation, safety, or commissioning instructions.

Manufacturer	Yokogawa
Prepared by	Apter Power
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INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Engineering clarity for four-segment H1 communication and redundancy.

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ALF111-S50-S1

1. Pre-Installation Decision Gates

Step	Gate	Required evidence
1	Identity	Match every character of ALF111-S50-S1; photograph all labels, revisions, and option markings.
2	Host architecture	Confirm the exact Yokogawa CENTUM VP N-IO/FIO rack, slot, controller, project, and approved topology.
3	Primary risk	Document the evidence for four-segment H1 communication and redundancy before disconnection or energization.
4	Electrical / signal	Verify supply, signal type, range, polarity, grounding, shielding, pinout, and load from the exact manufacturer document.
5	Lifecycle	Yokogawa published the eighth edition of the current ALF111 general specification in April 2024. Confirm availability and suffix-specific approvals for S50-S1.
6	Commissioning	Use the manufacturer test procedure, capture measured results, and obtain release authorization before return to service.

Model-Specific Precautions

- Match every character of ALF111-S50-S1 to the physical nameplate before work.
- Use the exact Yokogawa manual, wiring drawing, and safety instructions for the installed revision.
- De-energize and apply the required lockout, discharge, ESD, and stored-energy controls before removal.
- Back up firmware, parameters, controller project, calibration, and network settings where applicable.
- Verify supply, signal type, polarity, grounding, shielding, connector pinout, load, and environmental limits.
- Commission with the manufacturer test procedure and record results before returning equipment to service.

2. Wiring, Configuration and Commissioning Record

Record item	Site entry
Physical model / article	
Serial / hardware revision	
Host system / machine	
Rack / slot / physical location	
Supply and grounding checked	
Signal type / range / pinout	
Firmware / project / calibration backup	
Functional or safety test result	
Technician / reviewer / date	

Stop Condition

Do not energize ALF111-S50-S1 if any suffix, supply, pinout, host-system assignment, safety classification, or four-segment H1 communication and redundancy requirement remains unresolved.

3. Source Basis and Field Handover

Official manufacturer source

Yokogawa General Specifications GS 33J60G20-01EN, ALF111 FOUNDATION Fieldbus Communication Module for N-IO/FIO.

<https://web-material3.yokogawa.com/GS33J60G20-01EN.pdf>

Handover Checklist

Handover item	Status
Manufacturer document attached	
Nameplate photographs archived	
Project / settings backup archived	
Test evidence approved	
Lifecycle or migration action recorded	

Important Notice

This Apter Power checklist is not a Yokogawa installation instruction. The current manufacturer documentation, physical nameplate, host-equipment manual, safety study, and site procedures control all work.

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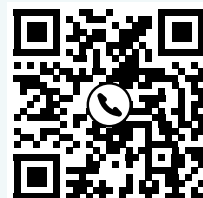
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