Yokogawa ATK4A-00 S1

Engineering Installation, Diagnostic and Acceptance Guide

Yokogawa ATK4A-00 S1 is a 16-point analog KS cable interface adapter. Its exact marking, installed interfaces and companion equipment must be verified before replacement or commissioning.

01 Work package

Complete model	ATK4A-00 S1
Product type	16-point analog KS cable interface adapter
Manufacturer	Yokogawa
Supply condition	New, original product
Technical source	Yokogawa CENTUM VP system bulletin and analog I/O ordering information

Field decisions

1 Establish identity

Capture the full marking, installed companion components and baseline before disconnection.

2 Inspect interfaces

Verify mounting, cable, connector, armor, approval and environmental boundaries.

3 Fit the exact chain

Preserve the documented probe-cable-Proximitor or sensor-monitor relationship.

4 Prove response

Use the approved stopped-machine and operating acceptance procedure.

5 Record as left

Save markings, configuration, test values and operating observations.

02 Interface and configuration map

Base model	ATK4A-00
Interface class	KS cable interface adapter
Analog point capacity	16 points
Base specification code	00
Surge absorber	Not included in this adapter family listing
Supplied marking	S1 must be retained and verified on the actual adapter
Connection purpose	Transition between supported analog I/O modules and KS cable wiring

Compatibility boundary	Use only with module and cable combinations identified by Yokogawa
Replacement rule	Match model, style marking, connector keying and channel schedule

03 Installation workflow

Retain S1 marking

Include S1 in photographs and the quotation even though no unverified meaning is assigned.

Record connector orientation

Mark the top, keyed side and cable direction before disconnection.

Verify 16-point schedule

Compare every channel with the approved wiring list.

Inspect contact condition

Check for bent pins, fretting, contamination and latch damage.

Use continuity-only bench checks

Do not apply loop power until the approved module and wiring are connected.

Prove complete loops

Test signal continuity and channel identity through the installed system.

Application checks

Analog cable transition

Connect a supported 16-point analog I/O module to its KS cable wiring.

Maintenance replacement

Preserve the installed adapter identity, cable orientation and channel allocation.

RIO migration support

Maintain the documented cable interface during an approved system upgrade.

Bench continuity check

Verify every assigned conductor through the adapter without applying unsupported voltages.

04 Diagnostic decision table

How should the S1 marking on ATK4A-00 S1 be handled?	Preserve it in the complete offered identity, photographs and maintenance record; do not assign an electrical function without matching Yokogawa evidence.
What proves channel order through ATK4A-00 S1?	Use the approved 16-point wiring schedule and continuity-test each assigned conductor from module-side connector to the intended field terminal.
How can connector damage on ATK4A-00 S1 affect analog loops?	Bent or contaminated contacts can introduce opens, unstable resistance or channel crossover; inspect both mating halves before loop calibration.
What must be matched when replacing ATK4A-00 S1?	Confirm ATK4A-00 identity, S1 marking, connector keying, supported module, KS cable part and the complete channel schedule.

Release review

Installation relationship	Use the exact model marking and manufacturer wiring or installation information for the delivered hardware.
System boundary	Verify host equipment, companion interfaces, field wiring and configuration before energizing.
Technical reference	Yokogawa CENTUM VP system bulletin and analog I/O ordering information.

Engineering questions

How should the S1 marking on ATK4A-00 S1 be handled?	Preserve it in the complete offered identity, photographs and maintenance record; do not assign an electrical function without matching Yokogawa evidence.
What proves channel order through ATK4A-00 S1?	Use the approved 16-point wiring schedule and continuity-test each assigned conductor from module-side connector to the intended field terminal.
How can connector damage on ATK4A-00 S1 affect analog loops?	Bent or contaminated contacts can introduce opens, unstable resistance or channel crossover; inspect both mating halves before loop calibration.
What must be matched when replacing ATK4A-00 S1?	Confirm ATK4A-00 identity, S1 marking, connector keying, supported module, KS cable part and the complete channel schedule.
Should insulation resistance be tested directly through ATK4A-00 S1?	Only use a method and voltage approved for the disconnected adapter and companion electronics; isolate sensitive modules before any insulation test.
How should spare ATK4A-00 S1 hardware be stored?	Protect both connectors with clean covers, control humidity and static exposure, and retain the complete marking with the spare record.
What loop test follows installation of ATK4A-00 S1?	Inject or simulate each approved analog channel and compare field terminal, module raw value and engineering indication for correct identity and stability.
What as-left evidence is required for ATK4A-00 S1?	Retain connector photographs, continuity results, channel schedule, loop checks and any corrected wire or cable labels.

Acceptance and support

Retain the full marking, installed-chain identities, test readings and approved machine configuration. Confirm the exact offered item and included scope in the written quotation.

Discuss the exact marking and installed application with Apter Power.
sales13@apterpower.com | +86 18030235313

Verified related product references

Related product	AAB841
Related product	AAI841-H00
Related product	ADV159-P00
Related product	SDV144-S33

Commissioning record template

Installed asset	Machine, bearing, channel or cabinet reference

Companion identities	Probe, cable, sensor, interface or monitor markings
Mechanical datum	Mounting reference, reach, alignment or sealing condition
Electrical datum	Chain length, connector, shield, supply or input assignment
Before-work baseline	Gap, bias, vibration, continuity or channel observation
As-left result	Final measured value and functional proof
Approval basis	Applicable drawing, control requirement or site procedure
Handover	Technician, date, revision and maintenance-record location

Handover note

A replacement is complete only after the installed identity, physical interfaces, measured response and configuration record agree. Escalate any mismatch before the channel returns to protection or monitoring service.

Release checklist

Identity accepted	Complete marking agrees with the order, photographs and installed asset record.
Interfaces accepted	Mechanical fit, connector, wiring and companion components match the approved design.
Environment accepted	Temperature, contamination, vibration and route protection remain inside documented limits.

Verification evidence

Nameplate evidence Full marking, suffix and revision photographs	Related reference ADV159-P00
Interface evidence Connector, mounting and companion-hardware record	Related reference SDV144-S33