Modicon AS-J890-101

Installation & Commissioning Guide

01 Job scope and safe-work boundary

Replacement of a Modicon J890-101 one-port remote I/O adapter in an 800 Series drop.

Offered reference	Modicon AS-J890-101
Installed platform	Modicon 800 Series I/O / S908 RIO
Work purpose	Identify, fit, configure and verify the complete offered item
Evidence basis	Schneider Electric Modicon Quantum Automation Platform Catalog; Modicon S908 Remote I/O Cabling System Planning and Installation Guide, 35014629

Before isolation

Identify	Acceptance before work
Adapter identity	Keep the AS-J890-101 one-port marking distinct from J890-102.
RIO head	Record the S908 or Quantum CRP93X head arrangement.
Coaxial route	Identify the single F-connector cable and its network topology.

02 Pre-installation readiness

Check	Decision criterion
Drop address	Record the existing drop addressing before removal.
Rack load	Compare fitted 800 Series I/O current with supply capacity.
Isolation boundary	Plan safe isolation of the drop and affected I/O circuits.

System interface record

RIO cable ports	One coaxial F-connector port
ASCII ports	None
Documented topology	Linear or dual RIO cable topology
Network technology	S908 remote I/O

Go / no-go decision

The one-port/no-ASCII distinction applies to AS-J890-101; rack capacity and full network limits depend on the host and installed 800 Series I/O configuration.

03 Installation or replacement sequence

Stage	Field action	Hold point
01 Record	Document adapter code, drop address, I/O modules and cable position.	Capture the one-port coaxial arrangement.
02 Isolate	De-energize the drop under the site procedure.	Prevent unintended I/O actuation.
03 Disconnect	Label and remove the coaxial F-connector.	Preserve the route and termination design.
04 Fit	Install the matching -101 adapter in the documented 800 Series rack.	Check backplane engagement and power budget.
05 Reconnect	Restore the coaxial cable and recorded drop address.	Keep linear or dual topology as designed.
06 Prove	Restore power and test host-to-drop communication and each fitted module.	Record any unavailable I/O before handover.

04 Commissioning and acceptance

Test	Acceptable observation	If not
Port identity	The installed adapter is the one-port J890-101 execution.	Stop if the cable design expects J890-102.
RIO link	The head communicates with the intended drop.	Review address, cable, termination and head configuration.
I/O response	Each fitted 800 Series I/O module responds in the host test.	Trace module power and backplane status.
Rack power	The installed supply covers the module current sum.	Recalculate the drop load.
Network record	Cable topology and drop address match the maintenance record.	Correct the record before release.

Record the completed configuration

Keep the complete offered marking, installed system identity, settings and observed checks with the maintenance record.

Discuss the complete reference

Modicon AS-J890-101

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05 Fault response and handover

Observation	Review path
Drop absent	Review head, drop address, coaxial cable and termination.
One module missing	Check module seating and rack power budget.
Unexpected second cable	Reconcile the one-port -101 identity with the installed topology.
Intermittent RIO	Inspect coaxial connector condition and the documented cable route.

Handover boundary

Confirm the adapter, coaxial connector, rack and cabling items in the quotation.

Related catalog references

Portfolio navigation only. Verify every proposed configuration separately.

- **Schneider Electric AS-P890-000**
- **Schneider Electric 140CPS12420C**
- **Schneider Electric 140CPS22400**