

1 01 Readiness and operating boundary

Schneider Electric 490NRP25400 is a Modbus Plus line/drop repeater and transceiver for a mixed copper and optical-fiber network. It extends the documented network path while maintaining the node layout and fiber direction used by the installed architecture.

Confirm exact identity

Confirm 490NRP25400 and the complete Modbus Plus segment drawing before work.

Exact model	490NRP25400
Network	Modbus Plus
Device class	Line/drop repeater and transceiver

Establish the safe work boundary

Place all affected network nodes in the approved maintenance state.

Identity	490NRP25400
Host	Modicon Quantum / Modbus Plus
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
Inspector	_____
Result	Pass / hold / corrective action
Record	Date, diagnostic state and release reference

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490NRP25400

2 02 Configuration and interface setup

490NRP25400 bridges a defined Modbus Plus segment across its approved copper and optical media, so topology, port direction and network continuity remain a single engineered route.

Record the as-found configuration

Record copper ports, fiber transmit/receive direction and node order before removal.

Network	Modbus Plus
Device class	Line/drop repeater and transceiver
Supported media	Copper and optical fiber

Map connections and settings

Protect optical connectors from dust, moisture and end-face damage.

Identity	490NRP25400
Host	Modicon Quantum / Modbus Plus
Acceptance	Diagnostics and functional response

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3 03 Installation and service sequence

490NRP25400 bridges a defined Modbus Plus segment across its approved copper and optical media, so topology, port direction and network continuity remain a single engineered route.

Restore the documented assembly

Maintain documented cable routing, bend radius and mechanical strain relief.

Device class	Line/drop repeater and transceiver
Supported media	Copper and optical fiber
Topology record	Node map and segment direction

Protect every interface

Restore transmit-to-receive pairing and every shield or grounding provision.

Identity	490NRP25400
Host	Modicon Quantum / Modbus Plus
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04 Verification and fault isolation

490NRP25400 bridges a defined Modbus Plus segment across its approved copper and optical media, so topology, port direction and network continuity remain a single engineered route.

Verify the installed function

Review communication counters and node status after controlled energization.

Supported media	Copper and optical fiber
Topology record	Node map and segment direction
Fiber record	Transmit/receive path and connector assignment

Isolate unexpected response

Test the complete segment in both directions before releasing 490NRP25400.

Identity	490NRP25400
Host	Modicon Quantum / Modbus Plus
Acceptance	Diagnostics and functional response

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5 05 Acceptance and service handover

490NRP25400 bridges a defined Modbus Plus segment across its approved copper and optical media, so topology, port direction and network continuity remain a single engineered route.

Complete the release record

Confirm 490NRP25400 and the complete Modbus Plus segment drawing before work.

Exact model	490NRP25400
Network	Modbus Plus
Device class	Line/drop repeater and transceiver

Retain acceptance evidence

Place all affected network nodes in the approved maintenance state.

Identity	490NRP25400
Host	Modicon Quantum / Modbus Plus
Acceptance	Diagnostics and functional response

[Schneider Electric RM1XA315 — View product page](#)

[Schneider Electric TSXP57302M — View product page](#)

[Schneider Electric DRIVE PS 5 — View product page](#)

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