

Schneider Electric

490NRP25400

Modbus Plus Fiber Optic Repeater

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.

System position

Exact identity 490NRP25400	System family Modicon Quantum / Modbus Plus	Functional role Network Repeater	Release basis Recorded test and diagnostics
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Keep the hardware and configuration identities together

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.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Exact model	490NRP25400
Network	Modbus Plus
Device class	Line/drop repeater and transceiver
Supported media	Copper and optical fiber
Topology record	Node map and segment direction
Fiber record	Transmit/receive path and connector assignment

Technical evidence record: Modicon Quantum Automation Platform Catalogue, pages 146–147; Schneider Electric FAQ

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Interfaces and integration

Define the installed role

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

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

Map the host relationship

The complete 490NRP25400 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	Modicon Quantum / Modbus Plus
Primary role	Modbus Plus line/drop signal conversion and
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded Modicon Quantum / Modbus Plus position, connected interfaces and configuration

Acceptance evidence

Release 490NRP25400 only after diagnostics and a controlled functional result are recorded.

Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

PARAMETER	VALUE	PARAMETER	VALUE
Exact model	490NRP25400	Topology record	Node map and segment direction
Network	Modbus Plus	Fiber record	Transmit/receive path and connector assignment
Device class	Line/drop repeater and transceiver	Replacement status	No direct replacement identified
Supported media	Copper and optical fiber	Acceptance	Segment communication and error review

Identity decision

Accept only the complete 490NRP25400 marking and the recorded hardware execution.

Host decision

Confirm the receiving Modicon Quantum / Modbus Plus position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of Modbus Plus line/drop signal conversion and optical-fiber extension before handover.

Engineering boundary

Use 490NRP25400 only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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Controls and service logic

Modbus Plus fiber extension

Carries a documented network segment across optical fiber.

Copper-to-fiber transition

Maintains communication between approved copper and optical media.

Electrical isolation planning

Supports a controlled fiber segment where the architecture requires media separation.

Legacy network maintenance

Preserves node order and repeater direction while renewing a field device.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read 490NRP25400 and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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Engineering decisions

What is Schneider Electric 490NRP25400?

It is a Modbus Plus line/drop repeater and transceiver for copper and optical-fiber media.

Which network does 490NRP25400 support?

It supports a documented Modbus Plus network segment.

Which media does 490NRP25400 connect?

The product is used with copper and optical-fiber network media.

Does 490NRP25400 change the Modbus Plus node map?

No. Replacement should preserve the engineered node order and segment topology.

Is a direct replacement listed for 490NRP25400?

The Schneider Electric FAQ states that no direct replacement is available.

What must be recorded before removing 490NRP25400?

Record port assignments, fiber transmit/receive direction, node order and cable routing.

Related Apter Power pages

[Schneider Electric ATV320U75N4B — View product page](#)

[Schneider Electric MC 4 11 01 400 — View product page](#)

[Schneider Electric AP4423 — View product page](#)

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