

3500/92-04-01-01

3500/92 Communication Gateway

Bently Nevada 3500/92-04-01-01 is a 3500/92 Communication Gateway for the 3500 Machinery Protection System. It presents configured 3500 rack data through Ethernet and RS485 Modbus interfaces.

BRAND	Bently Nevada	FAMILY	Bently Nevada 3500 Machinery Protection System
PART	3500/92-04-01-01	SYSTEM ROLE	Provides Ethernet and RS485 communication paths

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3500/92-04-01-01

MANUFACTURER SOURCE RECORD

3500/92 Communication Gateway Datasheet
Baker Hughes publication 141542 Rev. N

Product Overview

SYSTEM FUNCTION

Bently Nevada 3500/92-04-01-01 is a 3500/92 Communication Gateway for the 3500 Machinery Protection System. It presents configured 3500 rack data through Ethernet and RS485 Modbus interfaces.

FUNCTION 1

Provides Ethernet and RS485 communication paths

FUNCTION 2

Exposes configured rack data through Modbus

FUNCTION 3

Uses the documented low-memory execution

FUNCTION 4

Occupies the assigned communication-gateway slot

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada 3500 Machinery Protection System
Primary interface	Provides Ethernet and RS485 communication paths
Engineering context	3500/92-04-01-01 is installed only in the documented Bently Nevada 3500 Machinery Protection System arrangement with its matching host, terminal, cable or field interface. Commissioning preserves the as-found configuration and uses controlled identity, connection, diagnostic and functional checks.
Commissioning duty	Perform controlled channel and protection-path tests before service release.

TECHNICAL NOTE

Before removing 3500/92-04-01-01, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Complete order number	3500/92-04-01-01	Memory option	Low memory
I/O option	Ethernet/RS485 Modbus I/O	Approval	CSA/NRTL/C

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/40M	Proximitior monitor	View 3500/40M page
3500/42M	monitor I/O module	View 3500/42M page
130118-0050-02	host-to-rack communication cable	View 130118-0050-02 page
3500/53	overspeed detection module	View 3500/53 page
3500/72M	reciprocating-rod monitor	View 3500/72M page
330101-00-08-05-02-05	8 mm proximity probe	View 330101-00-08-05-02-05 page
330103-00-04-10-02-00	metric proximity probe	View 330103-00-04-10-02-00 page
330104-00-12-10-02-00	armored proximity probe	View 330104-00-12-10-02-00 page

ENGINEERING BOUNDARY

Confirm 3500/92-04-01-01, 3500 rack and slot, module and I/O hardware revisions, terminal or port assignments, wiring, grounding, rack firmware, software configuration, associated accessories and controlled diagnostic and protection-test results before commissioning.

Applications and Precautions

Common Applications

3500 rack system integration

Presents configured 3500 rack data through ethernet and rs485 modbus interfaces.

Machinery protection modernization

Restores an exact rack position while retaining the approved protection strategy.

Rotating-equipment monitoring

Supports configured vibration, position, speed or status information in the rack.

Controlled rack recommissioning

Provides the exact module identity used for diagnostics and functional acceptance.

Product Precautions

- 1

Confirm the complete 3500/92-04-01-01 marking and assigned 3500 rack position.
- 2

Place every affected protection function in the approved maintenance state.
- 3

Record module, I/O and rack hardware revisions before removal.
- 4

Record every configured channel, port, relay or power connection.
- 5

Isolate applicable rack and field energy and observe ESD controls.
- 6

Restore the documented rack slot, wiring and software configuration.
- 7

Review rack, module and communication diagnostics after startup.
- 8

Perform controlled channel and protection-path tests before service release.

IMPORTANT NOTICE

Confirm 3500/92-04-01-01, 3500 rack and slot, module and I/O hardware revisions, terminal or port assignments, wiring, grounding, rack firmware, software configuration, associated accessories and controlled diagnostic and protection-test results before commissioning.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	3500/92-04-01-01
Configuration	Review rack, module and communication diagnostics after startup.
Functional release	Perform controlled channel and protection-path tests before service release.

Engineer FAQ

Q1 What identity details must be checked before 3500/92-04-01-01 is removed?

Confirm 3500/92-04-01-01, 3500 rack and slot, module and I/O hardware revisions, terminal or port assignments, wiring, grounding, rack firmware, software configuration, associated accessories and controlled diagnostic and protection-test results before commissioning.

Q3 Which Bently Nevada 3500 Machinery Protection System interfaces must be recorded for 3500/92-04-01-01?

3500/92-04-01-01 is installed only in the documented Bently Nevada 3500 Machinery Protection System arrangement with its matching host, terminal, cable or field interface. Commissioning preserves the as-found configuration and uses controlled identity, connection, diagnostic and functional checks.

Q5 How should the installed configuration be restored after fitting 3500/92-04-01-01?

Restore the documented rack slot, wiring and software configuration.

Q7 What replacement records should be retained for 3500/92-04-01-01?

Confirm the complete 3500/92-04-01-01 marking and assigned 3500 rack position. Isolate applicable rack and field energy and observe ESD controls.

Q2 How does 3500/92-04-01-01 perform its documented 3500/92 communication gateway role?

Provides Ethernet and RS485 communication paths. It presents configured 3500 rack data through Ethernet and RS485 Modbus interfaces.

Q4 What isolation and ESD controls apply while handling 3500/92-04-01-01?

Place every affected protection function in the approved maintenance state. Record module, I/O and rack hardware revisions before removal.

Q6 Which diagnostic evidence confirms that 3500/92-04-01-01 is recognized correctly?

Review rack, module and communication diagnostics after startup.

Q8 What final acceptance test is required before 3500/92-04-01-01 returns to service?

Perform controlled channel and protection-path tests before service release.

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