

3500/92-04-01-01

3500/92 Communication Gateway

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

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.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Bently Nevada article.

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3500/92-04-01-01

Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 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.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	3500/92-04-01-01
Host / carrier	Bently Nevada 3500 Machinery Protection System
Primary system role	Provides Ethernet and RS485 communication paths
Acceptance boundary	Perform controlled channel and protection-path tests before service release.
Source record	3500/92 Communication Gateway Datasheet

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

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.

- 1 Isolate applicable rack and field energy and observe ESD controls.
- 2 Restore the documented rack slot, wiring and software configuration.
- 3 Review rack, module and communication diagnostics after startup.
- 4 Perform controlled channel and protection-path tests before service release.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

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.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	3500/92-04-01-01
Host match	Bently Nevada 3500 Machinery Protection System
Connection proof	Restore the documented rack slot, wiring and software configuration.
Configuration proof	Review rack, module and communication diagnostics after startup.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

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

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

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.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
330104-00-12-10-02-00	armored proximity probe	View 330104-00-12-10-02-00 page
330105-02-12-10-02-05	reverse-mount probe	View 330105-02-12-10-02-05 page
330130-080-00-00	extension cable	View 330130-080-00-00 page
330180-50-00	Proximitor Sensor	View 330180-50-00 page
3500/25	Keyphasor module	View 3500/25 page
3500/40M	Proximitor 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

MANUFACTURER SOURCE RECORD

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

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