

3500/42M-SIL2-09-01

3500/42M Proximitors Seismic Monitor

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Bently Nevada 3500/42M-SIL2-09-01 is preserved as the complete supplied identity for a 3500/42M four-channel Proximitors Seismic Monitor arrangement. The documented 09 I/O option accepts Prox/Accel, Velomitor and HTVS inputs through internal terminations.

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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3500/42M-SIL2-09-01

Installation Readiness Gate

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

- 1

Confirm the complete 3500/42M-SIL2-09-01 supplied identity and rack position.
- 2

Place every associated protection channel in the approved maintenance state.
- 3

Record all four channel types, alarm setpoints and voting or relay actions.
- 4

Isolate rack and field energy according to the approved procedure.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	3500/42M-SIL2-09-01
Host / carrier	Bently Nevada 3500 Machinery Protection System
Primary system role	Monitors four configured machinery channels
Acceptance boundary	Inject controlled signals and prove every affected alarm path before release.
Source record	3500/42M Proximitors Seismic Monitor 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 3500/42M-SIL2-09-01, 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 Confirm I/O option 09 and internal terminal assignments before removal.
- 2 Restore channel transducer types, scales, filters and alarm logic.
- 3 Review monitor, rack and communication diagnostics after startup.
- 4 Inject controlled signals and prove every affected alarm path before 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 3500/42M-SIL2-09-01, 3500 rack and slot, monitor and I/O hardware revisions, option 09 internal terminals, four transducer types, wiring, grounding, rack firmware, channel configuration, setpoints and controlled alarm-test results before commissioning.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	3500/42M-SIL2-09-01
Host match	Bently Nevada 3500 Machinery Protection System
Connection proof	Restore channel transducer types, scales, filters and alarm logic.
Configuration proof	Review monitor, rack 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

Inject controlled signals and prove every affected alarm path before 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

Radial vibration protection

Processes configured proximity or seismic signals for rotating machinery.

Axial position supervision

Uses matched proximity inputs for thrust-position protection logic.

Casing vibration monitoring

Accepts documented Velomitor or HTVS velocity signals.

Four-channel monitor replacement

Restores the assigned 3500 rack monitor and I/O positions.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER 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
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

MANUFACTURER SOURCE RECORD

3500/42M Proximitor Seismic Monitor Datasheet
Baker Hughes publication 143694 Rev. AE

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