

330525-00

Velomitor XA Piezo-velocity Sensor

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Bently Nevada 330525-00 is a Velomitor XA piezo-velocity sensor with no agency-approval option selected. It produces a velocity signal for compatible Bently Nevada machinery-monitoring channels.

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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330525-00

Installation Readiness Gate

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

- 1

Confirm 330525-00 and the 00 approval option on the sensor marking.
- 2

Place the monitored machine and protection channel in the approved maintenance state.
- 3

Isolate the connected monitor input and protect the connector from contamination.
- 4

Record mounting location, orientation, cable route and channel identity.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	330525-00
Host / carrier	Bently Nevada Velomitor XA vibration transducer system
Primary system role	Measures casing vibration as velocity
Acceptance boundary	Compare controlled vibration response and alarm behavior with the accepted baseline.
Source record	330525 Velomitor XA Piezo-velocity Sensor 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 330525-00, 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

Inspect the 1/4-28 mounting stud and machine surface for damage.
- 2

Fit the sensor with the approved mounting method and reconnect the documented cable.
- 3

Review channel bias, vibration value and diagnostics before machine run-up.
- 4

Compare controlled vibration response and alarm behavior with the accepted baseline.

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 330525-00, sensor location and orientation, 1/4-28 mounting interface, 2-pin connector, cable, grounding, monitoring-channel configuration, machine state and controlled vibration-response results before commissioning.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	330525-00
Host match	Bently Nevada Velomitor XA vibration transducer system
Connection proof	Fit the sensor with the approved mounting method and reconnect the documented cable.
Configuration proof	Review channel bias, vibration value and diagnostics before machine run-up.

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

Compare controlled vibration response and alarm behavior with the accepted baseline.

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

Bearing-housing vibration measurement

Measures absolute vibration at a documented machine casing location.

Pump and compressor monitoring

Provides a velocity signal for rotating-equipment condition observation.

Motor casing surveillance

Supports monitored vibration trends at an approved mounting point.

Installed sensor replacement

Restores the exact Velomitor XA position after identity and response checks.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER 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
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

MANUFACTURER SOURCE RECORD

330525 Velomitor XA Piezo-velocity Sensor Datasheet
Baker Hughes publication 141633 Rev. M

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