

01

Identity, prerequisites and work boundary

APTER POWER / MODEL-SPECIFIC INSTALLATION & COMMISSIONING GUIDE

Bently Nevada 9200-09-01-06-04

Exact product identity

The Bently Nevada 9200 Seismoprobe is a two-wire moving-coil transducer that produces an output proportional to absolute casing velocity without an external power supply.

PRE-WORK CHECK	OFFICIAL BASIS
Orientation / minimum frequency	A09: 0 +/-180 degrees; 15 Hz minimum
Cable option	B01: top mount; no integral cable
Mounting stud	C06: isolated circular 1/4-20 UNC stud
Approval option	D04: ATEX/IECEX; isolated base required
Transducer principle	Two-wire moving coil; no external power
Sensitivity	20 mV per mm/s (500 mV per in/s), +/-5%
Recommended load	10 kOhm
Temperature coefficient	0.2% per degree C

Official evidence boundary

Official evidence: 9200 and 74712 Seismoprobe Velocity Transducers Datasheet, 141626 Rev. AE. Technical statements in this document are limited to that manufacturer publication and the exact ordering identity shown.

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01 / INSTALLATION

Confirm all four ordering-code groups because orientation, cable, stud and approval change the installation.

02 / INSTALLATION

Mount on a rigid, clean surface and preserve the selected orientation range.

03 / INSTALLATION

Use the specified stud and do not force a mismatched thread into the transducer base.

04 / INSTALLATION

Maintain the two-wire polarity and a compatible 10 kOhm monitoring load.

05 / INSTALLATION

Route field cable within the 1,000 ft limit and protect it from strain and noise pickup.

06 / INSTALLATION

Verify the installed low-frequency cutoff is suitable for the machine speed.

07 / INSTALLATION

Compare bias-free self-generated output and broadband vibration with a controlled baseline.

08 / INSTALLATION

Retain mounting, orientation, wiring, measured velocity and acceptance evidence.

Hold point

Do not energize until the exact article, matching I/O or termination hardware, field wiring, grounding, transducer type and approved configuration have been independently checked.

03

Configuration and signal verification

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CONFIGURATION ITEM	REQUIRED MATCH
Coil resistance	1.25 kOhm nominal
Coil inductance	125 mH nominal
Dynamic range	2.54 mm peak-to-peak
Velocity range	25 mm/s
Amplitude linearity	+/-5% from 0.254 to 127 mm/s at 100 Hz
Maximum cable length	1,000 ft
Operating temperature	-29 to +121 degrees C
Humidity	95%; 100% with the documented cable option

Bearing-housing velocity

Measure absolute casing vibration at a rigid machine-housing location.

Fan casing monitoring

Apply the selected low-frequency response and mounting orientation to fan structures.

Pump and compressor casing

Trend velocity through a compatible monitoring input and approved field wiring.

Long-run sensor wiring

Use the two-wire interface within the documented cable-length and load envelope.

Signal-path acceptance

Compare the raw or buffered signal with the processed measurement, recorder output and configured alarm behavior. Resolve polarity, sensitivity, scaling or channel-type differences before proceeding.

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RELEASE ITEM	REQUIRED EVIDENCE
Identity	Exact article and installed position recorded
Interfaces	I/O, termination, sensor and cable identities verified
Configuration	Channel type, sensitivity, range, filters and logic restored
Raw signal	Bias, gap, waveform or buffered output accepted
Processed value	Measured value and scaling compared with controlled input
Alarms	Alert, Danger, Not-OK or relay behavior proved as applicable
Outputs	Recorder or relay circuit checked against the installed load
Release	Final baseline, diagnostics and authorization retained

How does the A09 orientation option affect installation of 9200-09-01-06-04?

A09 permits 0 +/-180 degrees and specifies a 15 Hz minimum-frequency configuration.

Why is an isolated base required for 9200-09-01-06-04?

The C06/D04 combination uses the isolated circular 1/4-20 UNC stud arrangement associated with the ATEX/IECEx option.

Which approval code is part of the exact identity of 9200-09-01-06-04?

D04 designates the ATEX/IECEx configuration; preserve the ordered nameplate and installation conditions.

What connector arrangement is supplied on 9200-09-01-06-04?

B01 is the top-mount, no-integral-cable option, requiring the correct separate field connector and cable.

Acceptance boundary

This guide organizes official product facts but does not replace the manufacturer datasheet, installed machine drawings, site procedures or authorized proof-test requirements.

Verified catalogue navigation; not approved substitutes

NO.	RELATED APTERPOWER PRODUCT	LINK
01	Bently Nevada 128276-01E	Bently Nevada 128276-01E
02	Bently Nevada 3500-42M-128229-01	Bently Nevada 3500-42M-128229-01
03	Bently Nevada 125720-02	Bently Nevada 125720-02
04	Bently Nevada 3500-32M-149986-02	Bently Nevada 3500-32M-149986-02
05	Bently Nevada 3500-05-01-02-00-00-01	Bently Nevada 3500-05-01-02-00-00-01
06	Bently Nevada 3500-25-149369-01	Bently Nevada 3500-25-149369-01

Selection notice

Do not infer compatibility from family naming or a shared spare-part number. Confirm the complete monitor, I/O, transducer, approval and termination identity.

Official evidence boundary

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