Bently Nevada 9200-06-05-05-00

Installation & Commissioning Guide

Bently Nevada 9200-06-05-05-00 is a two-wire Seismoprobe velocity transducer for vertical mounting, terminal-block connection and a stud-only base without agency approval.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Measures casing vibration relative to free space.

Feature 2

Uses the vertical 10 Hz minimum-frequency execution.

Feature 3

Provides a terminal-block top connection.

Feature 4

Mounts through the 1/2-20 UNF-3A stud without a separate base.

VERIFIED DATA SNAPSHOT

Transducer family	9200 Seismoprobe
Measurement	Absolute vibration velocity
Mounting angle / minimum frequency	0° ±100° / 10 Hz
Connection	Terminal-block top mount

SYSTEM RELATIONSHIP

Machine target → **Sensing tip** → **Coaxial signal path** → **Receiving electronics**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Transducer family

9200 Seismoprobe

Measurement

Absolute vibration velocity

Mounting angle / minimum frequency

0° ±100° / 10 Hz

Connection

Terminal-block top mount

Mounting base

No base; 1/2-20 UNF-3A stud

Approval option

No approvals

Signal type

Self-generating two-wire velocity output

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

CONFIGURATION AND WORK CONTROLS

Configuration identity	Bently Nevada 9200-06-05-05-00
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

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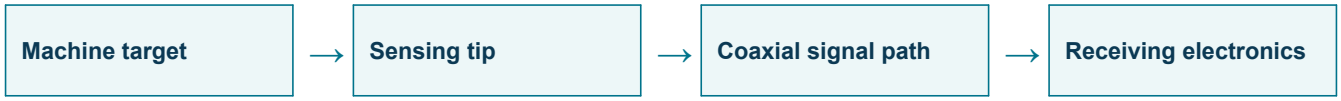
Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete 9200-06-05-05-00 mounting-angle, connector and base options.
02	Prepare a flat, rigid mounting surface aligned with the measurement axis.
03	Use the specified 1/2-20 UNF-3A stud and prevent rocking at the mounting interface.
04	Protect the terminal-block wiring inside a suitable enclosure or conduit system.
05	Keep signal cable away from high-noise power conductors and provide the required shield treatment.
06	Do not apply an isolated-base installation rule to this no-base execution.
07	Check polarity and phase convention before comparing the channel with previous data.
08	Verify low-frequency response, noise floor and monitor scaling before service release.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.



WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Bearing-housing vibration

Measures absolute motion on rolling-element bearing housings.

Machine-casing monitoring

Feeds a velocity channel for fans, pumps, motors and similar machines.

Periodic diagnostic measurements

Connects to suitable test or diagnostic instruments for velocity observation.

Continuous monitoring input

Provides a two-wire signal to a compatible vibration monitor.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

Which vibration quantity is sensed by 9200-06-05-05-00?	It measures absolute vibration velocity of the mounting surface.
What orientation range is selected in 9200-06-05-05-00?	Option 06 is the 0° ±100° execution with a 10 Hz minimum operating frequency.
How is field wiring connected to 9200-06-05-05-00?	Option 05 uses the terminal-block top-mount connection.
Which mechanical base is selected for 9200-06-05-05-00?	The second 05 selects no base and a 1/2-20 UNF-3A mounting stud.

Release record and technical references

CLOSEOUT QUESTIONS

Does the final 00 add hazardous-area approval to 9200-06-05-05-00?	No. The approval option is none.
Why must the mounting surface be rigid for 9200-06-05-05-00?	A flexible or rocking mount attenuates and distorts the casing-velocity signal.
Which polarity check is needed after wiring 9200-06-05-05-00?	Confirm that the measured phase and direction follow the plant convention for the selected axis.
What commissioning test is most useful for 9200-06-05-05-00?	Compare the stationary noise floor and a controlled vibration response with the configured velocity scale.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 9200-03-02-02-00	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 9200-06-01-10-00	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 9200-06-01-11-04	Installation-planning reference. Confirm the execution independently for the intended task.

CONFIGURATION AND FINAL CONTROL

Configuration identity	Bently Nevada 9200-06-05-05-00
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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