

Bently Nevada 9200-06-01-10-00

Two-wire Seismoprobe velocity transducer

Product identity and system role

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.

01 / FUNCTION

Measures absolute casing vibration velocity with a self-generating moving-coil element.

02 / FUNCTION

Provides 20 mV per mm/s sensitivity into a 10 kOhm load.

03 / FUNCTION

Supports long field cable runs up to the documented 1,000 ft limit.

04 / FUNCTION

Uses model-code options to define orientation, cable, mounting stud and approval.

IDENTITY FIELD	VERIFIED VALUE
Orientation / minimum frequency	A06: 0 +/-100 degrees; 10 Hz minimum
Cable option	B01: top mount; no integral cable
Mounting stud	C10: circular M10 x 1 stud
Approval option	D00: no ordered approval

Official technical parameters

Bently Nevada 9200-06-01-10-00 / manufacturer-published values

PARAMETER	OFFICIAL VALUE
Orientation / minimum frequency	A06: 0 +/-100 degrees; 10 Hz minimum
Cable option	B01: top mount; no integral cable
Mounting stud	C10: circular M10 x 1 stud
Approval option	D00: no ordered approval
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
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

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.

Applications and engineering checks

Bently Nevada 9200-06-01-10-00

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.

01 / PRECAUTION

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

02 / PRECAUTION

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

03 / PRECAUTION

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

04 / PRECAUTION

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

05 / PRECAUTION

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

06 / PRECAUTION

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

07 / PRECAUTION

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

08 / PRECAUTION

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

Model-specific engineering FAQ

Eight evidence-mapped decisions

What mounting orientation is encoded by 9200-06-01-10-00?

The A06 option permits 0 +/-100 degrees and specifies a 10 Hz minimum-frequency configuration.

Which stud interface belongs to 9200-06-01-10-00?

The C10 code identifies a circular M10 x 1 mounting stud; verify the prepared machine surface uses that exact thread.

Does 9200-06-01-10-00 include an integral cable?

No. B01 is a top-mount connector configuration without an integral cable, so the field cable assembly is installed separately.

Why does 9200-06-01-10-00 need no external sensor power?

The moving-coil Seismoprobe generates a two-wire voltage proportional to absolute casing velocity.

What load should the monitoring input present to 9200-06-01-10-00?

Use the published 10 kOhm load so the 20 mV per mm/s sensitivity remains applicable.

How should low-frequency response be tested for 9200-06-01-10-00?

Evaluate the installed response at and above the 10 Hz option boundary while preserving the permitted orientation.

What cable-run limit applies to 9200-06-01-10-00?

The documented maximum field cable length is 1,000 ft; verify continuity, shielding and signal quality across the actual route.

Which acceptance data should be stored for 9200-06-01-10-00?

Retain stud torque, orientation, cable identity, input load, measured velocity sensitivity and baseline waveform.

EVIDENCE MAP A

FAQ 01 — pp. 9-11

FAQ 03 — pp. 9-11

FAQ 05 — pp. 2-4

FAQ 07 — pp. 4-6

EVIDENCE MAP B

FAQ 02 — pp. 9-11

FAQ 04 — pp. 1-3

FAQ 06 — pp. 3, 9-11

FAQ 08 — pp. 1-11

Related products and contact

Verified ApterPower navigation links; not approved substitutes

NO.	RELATED APTERPOWER PRODUCT	LINK
01	Bently Nevada 172103-01	Bently Nevada 172103-01
02	Bently Nevada 133819-02	Bently Nevada 133819-02
03	Bently Nevada 3500-93-135799-01	Bently Nevada 3500-93-135799-01
04	Bently Nevada 3500-53M-286566-01	Bently Nevada 3500-53M-286566-01
05	Bently Nevada 136188-02	Bently Nevada 136188-02
06	Bently Nevada 133300-01	Bently Nevada 133300-01

Navigation boundary

These links provide nearby catalogue references only. Confirm the complete machine, rack, I/O, transducer and ordering-code requirements before selecting any alternate article.

Official evidence boundary

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