

# Bently Nevada 9200-06-01-10-00

Two-wire Seismoprobe velocity transducer

Overview

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.

| PUBLIC PRODUCT FIELD            |  | 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% |

# Technical parameter dashboard

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| PARAMETER                       | OFFICIAL VALUE                          | PARAMETER               | OFFICIAL VALUE       | PARAMETER             | OFFICIAL VALUE                             |
|---------------------------------|-----------------------------------------|-------------------------|----------------------|-----------------------|--------------------------------------------|
| Orientation / minimum frequency | A06: 0 +/-100 degrees; 10 Hz minimum    | Recommended load        | 10 kOhm              | Amplitude linearity   | +/-5% from 0.254 to 127 mm/s at 100 Hz     |
| Cable option                    | B01: top mount; no integral cable       | Temperature coefficient | 0.2% per degree C    | Maximum cable length  | 1,000 ft                                   |
| Mounting stud                   | C10: circular M10 x 1 stud              | Coil resistance         | 1.25 kOhm nominal    | Operating temperature | -29 to +121 degrees C                      |
| Approval option                 | D00: no ordered approval                | Coil inductance         | 125 mH nominal       | Humidity              | 95%; 100% with the documented cable option |
| Transducer principle            | Two-wire moving coil; no external power | Dynamic range           | 2.54 mm peak-to-peak |                       |                                            |
| Sensitivity                     | 20 mV per mm/s (500 mV per in/s), +/-5% | Velocity range          | 25 mm/s              |                       |                                            |

## 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.

# Common applications and Product Precautions

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|                                                                                                                                              |                                                                                                                                  |                                                                                                                                 |                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Bearing-housing velocity</b></p> <p>Measure absolute casing vibration at a rigid machine-housing location.</p>                         | <p><b>Fan casing monitoring</b></p> <p>Apply the selected low-frequency response and mounting orientation to fan structures.</p> | <p><b>Pump and compressor casing</b></p> <p>Trend velocity through a compatible monitoring input and approved field wiring.</p> | <p><b>Long-run sensor wiring</b></p> <p>Use the two-wire interface within the documented cable-length and load envelope.</p> |
| <p><b>01 / CHECK</b></p> <p>Confirm all four ordering-code groups because orientation, cable, stud and approval change the installation.</p> | <p><b>02 / CHECK</b></p> <p>Mount on a rigid, clean surface and preserve the selected orientation range.</p>                     | <p><b>03 / CHECK</b></p> <p>Use the specified stud and do not force a mismatched thread into the transducer base.</p>           | <p><b>04 / CHECK</b></p> <p>Maintain the two-wire polarity and a compatible 10 kOhm monitoring load.</p>                     |
| <p><b>05 / CHECK</b></p> <p>Route field cable within the 1,000 ft limit and protect it from strain and noise pickup.</p>                     | <p><b>06 / CHECK</b></p> <p>Verify the installed low-frequency cutoff is suitable for the machine speed.</p>                     | <p><b>07 / CHECK</b></p> <p>Compare bias-free self-generated output and broadband vibration with a controlled baseline.</p>     | <p><b>08 / CHECK</b></p> <p>Retain mounting, orientation, wiring, measured velocity and acceptance evidence.</p>             |

# Engineering FAQ

Eight exact-model answers with official evidence

## 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.

# Related products and contact

Catalogue navigation separate from technical evidence

| NO. | RELATED APTERPOWER PRODUCT       | LINK                                             |
|-----|----------------------------------|--------------------------------------------------|
| 01  | Bently Nevada 172103-01          | <a href="#">Bently Nevada 172103-01</a>          |
| 02  | Bently Nevada 133819-02          | <a href="#">Bently Nevada 133819-02</a>          |
| 03  | Bently Nevada 3500-93-135799-01  | <a href="#">Bently Nevada 3500-93-135799-01</a>  |
| 04  | Bently Nevada 3500-53M-286566-01 | <a href="#">Bently Nevada 3500-53M-286566-01</a> |
| 05  | Bently Nevada 136188-02          | <a href="#">Bently Nevada 136188-02</a>          |
| 06  | Bently Nevada 133300-01          | <a href="#">Bently Nevada 133300-01</a>          |

### Compatibility notice

A related ApterPower page is not an approved substitute. Verify the exact manufacturer ordering code, installed interfaces and configuration before procurement or maintenance release.

### APTER POWER CONTACT

WHATSAPP / PHONE +86 180 3023 5313  
EMAIL [sales13@apterpower.com](mailto:sales13@apterpower.com)  
WEBSITE [www.apterpower.com](http://www.apterpower.com)



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