Bently Nevada 9200-03-02-10-00

Apter Power installation and commissioning guide

Bently Nevada 9200-03-02-10-00 is a two-wire moving-coil Seismoprobe velocity transducer with 90-degree mounting orientation and a side-mount connector.

01 / Work scope

The 9200 Seismoprobe measures absolute vibration of a bearing housing, machine casing or structure by moving-coil action.

Selected assembly

Parameter	Selected configuration
Measurement	absolute casing or bearing-housing velocity
Sensing mechanism	two-wire moving coil
Mounting angle	90 degrees +/-2.5 degrees
Minimum operating frequency	4.5 Hz
Connector position	side mount, no cable
Mounting base	circular M10 x 1 stud

System position

Boundary	Installed-system relationship
Machine-casing context	The 9200-03-02-10-00 measures absolute vibration where movement reaches the bearing housing or casing.
Compatibility scope	The monitoring input, cable and mechanical stud must match the 90-degree, side-connector execution.

02 / Before installation

Code 03 selects a nominal 90-degree mounting orientation with 4.5 Hz minimum operating frequency. The installed direction must match the intended vibration axis.

Parameter	Selected configuration
Minimum operating frequency	4.5 Hz
Connector position	side mount, no cable
Mounting base	circular M10 x 1 stud
Approval selection	no approvals
External power	not required by moving-coil element

Readiness checks

Check	Reason or action
Mounting face	Clean and prepare a rigid surface at the selected measurement point.
Orientation	Align the 90-degree calibrated axis with the required vibration direction.
Stud match	Use the M10 x 1 base without substituting another thread.
Cable clearance	Keep the side connector and cable clear of mechanical damage.

Record the complete product marking and the installed machine drawing before removing an existing item.

03 / Mechanical and electrical fitting

Option 02 provides a side-mount connection without an integral cable; option 10 selects a circular M10 x 1 stud base. Use the correct interconnect cable and connector position.

Sequence	Installation action
1. Mounting face	Clean and prepare a rigid surface at the selected measurement point.
2. Orientation	Align the 90-degree calibrated axis with the required vibration direction.
3. Stud match	Use the M10 x 1 base without substituting another thread.
4. Cable clearance	Keep the side connector and cable clear of mechanical damage.
5. Signal loading	Use the documented termination and monitoring input when evaluating sensitivity.
6. Acceptance	Compare the signal with a known machine condition or approved vibration test.

Configuration-specific notes

Topic	Technical limit
Signal principle	The two-wire moving-coil element produces a voltage proportional to vibration velocity.
Installation relationship	The selected 90-degree axis, side connector and M10 x 1 stud define the mechanical installation.

04 / Commissioning acceptance

The final 00 selects no agency approvals. The two-wire transducer generates a velocity-proportional voltage without an external excitation supply.

Question	Engineering answer
What does 9200-03-02-10-00 measure?	It senses absolute vibration velocity of a bearing housing, casing or suitable structure.
What does option 03 specify on 9200-03-02-10-00?	It selects nominal 90-degree mounting with a 4.5 Hz minimum operating frequency.
Where is the connector on 9200-03-02-10-00?	Option 02 is a side-mount connector arrangement with no integral cable.
Which base does 9200-03-02-10-00 use?	Option 10 selects a circular M10 x 1 stud base.
Does 9200-03-02-10-00 need an external power supply?	The moving-coil two-wire sensing element generates its own velocity-proportional voltage.

Acceptance record

Measurement use	Supported context
Continuous monitoring	Feed a compatible two-wire velocity input where the housing vibration represents the machine condition.
Periodic diagnosis	Use a suitable diagnostic instrument for periodic casing-velocity checks.

Accept the installation only after the installed system and target configuration have been checked against the machine procedure.

05 / Service handover

Question	Engineering answer
What approval is selected on 9200-03-02-10-00?	Option 00 selects no agency approval.
Can 9200-03-02-10-00 be mounted in any orientation without review?	No. Its calibrated 90-degree orientation must match the measurement axis.
What determines the correct cable for 9200-03-02-10-00?	The side connector and receiving instrument determine the separately selected interconnect cable.

Service reference

Confirm the installed mounting angle, side connector and M10 x 1 base before choosing a replacement.

Related product references

Related product	Selection note
Bently Nevada 330851-02-000-060-10-00-00	Separate catalogue reference
Bently Nevada 31000-16-10-15-040-03-02	Separate catalogue reference
Bently Nevada 9200-01-02-02-00	Separate catalogue reference
Bently Nevada 330880-01-20-058-03-02	Separate catalogue reference
Bently Nevada 330801-28-20-050-03-02	Separate catalogue reference
Bently Nevada 330101-00-10-10-02-00	Separate catalogue reference
Bently Nevada 330101-00-20-10-02-00	Separate catalogue reference

Technical reference: Bently Nevada 9200 and 74712 Seismoprobe Velocity Transducers, 141626 Rev. V.