01 INSTALLATION & COMMISSIONING

Bently Nevada 990-04-50-02-00

01 / PLAN AND IDENTIFY

Bently Nevada 990-04-50-02-00 is a two-wire 990 vibration transmitter configured for a 0-4 mil peak-to-peak range, a 5.0 m 3300 NSv transducer system and bulkhead-screw mounting. It converts the matched proximity signal to a proportional 4-20 mA output.

Identity gate

990	Loop-powered vibration transmitter
04 full scale	0-4 mil pp / 0-100 um pp
50 system	5.0 m NSv electrical system
02 mounting	Bulkhead screws
00 approval	Agency approval not required

Work boundary

Exact item	Installed context	Acceptance
990-04-50-02-00	Mating component or rack position	Machine-specific functional check

01 Record the as-found item

Capture the complete identifier, installed point and mating components before removal. Apply the authorized isolation and protection-bypass procedure.

Related Bently Nevada models

Bently Nevada 990-05-50-01-05	Related portfolio reference; verify the complete execution.
Bently Nevada 990-05-70-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 990-05-70-01-05	Related portfolio reference; verify the complete execution.

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990-04-50-02-00

02 / PRE-INSTALLATION

Readiness gate

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed

02 Inspect condition

Check the nameplate, mounting surfaces, connectors, cable or enclosure for damage and contamination. Reject an item whose exact identity or condition cannot be confirmed.

03 Review the source

141612 Rev. Y: function and interfaces pp. 1-2; electrical and loop data p. 3; environment p. 4; exact 04/50-or-70/02/00 ordering selections p. 7.

Related Bently Nevada models

Bently Nevada 990-05-50-01-05	Related portfolio reference; verify the complete execution.
Bently Nevada 990-05-70-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 990-05-70-01-05	Related portfolio reference; verify the complete execution.

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03 / INSTALL AND CONNECT

04 / Installation check

Confirm the 04 range and matched 5.0 m NSv component chain before wiring 990-04-50-02-00.

05 / Installation check

Secure all four bulkhead screws without distorting the enclosure or blocking terminal access.

06 / Installation check

Verify polarity and voltage at the transmitter under the actual loop load.

07 / Installation check

Keep PROX OUT isolated from grounded AC-powered instruments through the specified adapter.

08 / Installation check

Limit the diagnostic BNC cable to 3 m and use the specified input loading.

Documented data to respect

Full-scale Option	04 = 0-4 mil peak-to-peak (0-100 um peak-to-peak)
System Length Option	50 = 5.0 m
Mounting Option	02 = bulkhead screws
Agency Option	00 = not required
Transducer Input	One 3300 NSv proximity probe and matching extension cable
Conditioning Stage	Integrated Proximitor

Related Bently Nevada models

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Bently Nevada 990-05-70-02-00	Related portfolio reference; verify the complete execution.
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04 / COMMISSION AND ACCEPT

09 Restore the documented assembly

The transmitter combines proximity-signal conditioning and loop conversion in one enclosure. Its five-metre sensor chain, receiving controller scaling and non-isolated diagnostic connection must be reviewed as one measurement path.

10 Perform the functional check

Use the machine procedure to verify the expected static condition, signal path and operating response. A visual inspection alone is not commissioning evidence.

Acceptance record

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed
Acceptance	Machine-specific functional result recorded

Can 990-04-50-02-00 provide vibration phase through its 4-20 mA loop?

No. The loop represents overall peak-to-peak amplitude; use the diagnostic output and suitable instrumentation for waveform work.

What does a persistent output below 3.6 mA indicate on 990-04-50-02-00?

It is the transmitter's Not OK behavior after the startup inhibit has ended; inspect the transducer chain and loop conditions.

May a grounded oscilloscope connect directly to 990-04-50-02-00?

Use the specified isolation adapter with grounded AC-powered test equipment because PROX OUT is not isolated from the loop.

Related Bently Nevada models

Bently Nevada 990-05-50-01-05	Related portfolio reference; verify the complete execution.
Bently Nevada 990-05-70-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 990-05-70-01-05	Related portfolio reference; verify the complete execution.

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05 / HANDOVER

Which approval selection is built into 990-04-50-02-00?

The final 00 means no agency-approval option is selected.

What should be recorded when commissioning 990-04-50-02-00?

Record the complete five-metre component chain, loop supply under load, zero/span result, output current and accepted machine reading.

Handover record

Identity	Exact model and installed location
Configuration	Mating items and relevant option fields
Inspection	Mechanical, cable and connector condition
Test	Authorized functional result and date

Related-product boundary

Recommended models are portfolio references. Compare every ordering field before selection.

Related Bently Nevada models

Bently Nevada 990-05-50-01-05	Related portfolio reference; verify the complete execution.
Bently Nevada 990-05-70-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 990-05-70-01-05	Related portfolio reference; verify the complete execution.
Bently Nevada 990-05-50-01-00	Related portfolio reference; verify the complete execution.

Manufacturer evidence

141612 Rev. Y: function and interfaces pp. 1-2; electrical and loop data p. 3; environment p. 4; exact 04/50-or-70/02/00 ordering selections p. 7.

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