

01 / PLAN AND IDENTIFY

Bently Nevada 990-04-70-02-00 is a two-wire 990 vibration transmitter configured for a 0-4 mil peak-to-peak range, a 7.0 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
70 system	7.0 m NSv electrical system
02 mounting	Bulkhead screws
00 approval	Agency approval not required

Work boundary

Exact item	Installed context	Acceptance
990-04-70-02-00	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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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.

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Bently Nevada 990-05-70-02-00	Related portfolio reference; verify the complete execution.
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03 / INSTALL AND CONNECT

04 / Installation check

Confirm the 04 range and matched 7.0 m NSv component chain before wiring 990-04-70-02-00.

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	70 = 7.0 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 Proximator

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04 / COMMISSION AND ACCEPT

09 Restore the documented assembly

The seven-metre selection must be completed with the matching probe and extension cable rather than a five-metre component set. Confirm loop scaling after the longer sensing chain and bulkhead installation are secured.

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

How should loop resistance be checked for 990-04-70-02-00?

Measure the complete loop and confirm it stays within the permitted value for the actual transmitter supply, including field cable and the receiving input.

Can the TEST input prove the machine probe installation for 990-04-70-02-00?

The TEST input checks the transmitter loop path; it does not replace inspection of probe gap, cable condition and target response.

What happens during power-up on 990-04-70-02-00?

The output remains below 3.6 mA for about two to three seconds before normal measurement becomes available.

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05 / HANDOVER

What does the last 00 on 990-04-70-02-00 mean?

No agency-approval option is selected; it does not establish a hazardous-area circuit approval.

Which readings belong in the 990-04-70-02-00 acceptance record?

Keep the loop supply, load, zero/span result, steady output, diagnostic signal and full seven-metre component identity.

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.

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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

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