

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.

Exact identity

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

Installed context

Exact item	Installed context	Acceptance
990-04-70-02-00	Mating component or rack position	Machine-specific functional check

Seven-metre sensing routes

Connect a matched 3300 NSv chain where the probe-to-transmitter route requires the selected electrical length.

Remote panel mounting

Install the enclosure with option-02 bulkhead hardware and preserve service access.

Machine-control alarming

Deliver an overall-vibration process signal for controller trending and logic.

Diagnostic comparison

Compare loop current with the local dynamic output during an approved channel check.

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.
Bently Nevada 330980-51-CN	Related portfolio reference; verify the complete execution.
Bently Nevada 330905-00-03-10-02-00	Related portfolio reference; verify the complete execution.

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Manufacturer-supported characteristics

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 Proximitior

Additional data

Supply at Transmitter	+12 to +35 VDC; approval-specific circuit limits also apply
Process Output	4-20 mADC, two-wire, proportional to configured full scale
Loop Accuracy	Within +/-1.5% of full scale, TEST input to a 250-ohm loop
Loop Accuracy Boundary	Additional to PROX OUT incremental scale-factor error
Maximum Loop Resistance	1000 ohm including cable at 35 VDC
Current Limiting	23 mA typical

Interpretation boundary

This execution selects a 7.0 m NSv chain, bulkhead screws and no agency approval. Match every transducer component and verify the actual loop before applying the signal to machinery logic.

Evidence discipline

Unverified weight, dimensions and suffix meanings are intentionally omitted. Confirm them only from the exact manufacturer record or nameplate.

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01 / Field precaution

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

02 / Field precaution

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

03 / Field precaution

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

04 / Field precaution

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

05 / Field precaution

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

06 / Field precaution

Allow the startup inhibit to finish before interpreting a below-3.6 mA state as a fault.

07 / Field precaution

Protect coaxial connectors against contamination and moisture at the installed location.

08 / Field precaution

Complete the machine-specific functional check before enabling alarm or trip logic.

Acceptance checkpoints

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

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Bently Nevada 990-05-70-02-00	Related portfolio reference; verify the complete execution.
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Why is the 70 code important on 990-04-70-02-00?

It selects a 7.0 m 3300 NSv electrical system; do not substitute a five-metre chain.

What is the calibrated vibration span of 990-04-70-02-00?

The 04 option selects 0-4 mil peak-to-peak, equivalent to 0-100 um peak-to-peak.

Does 990-04-70-02-00 include DIN-rail clips?

No. Mounting option 02 is the bulkhead-screw execution.

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.

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.

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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Evidence record

Manufacturer	Bently Nevada, a Baker Hughes company
Reference	990 Vibration Transmitter Datasheet 141612 Rev. Y
Exact identifier	990-04-70-02-00
Evidence boundary	Only directly supported family and ordering statements are used

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Recommendation rule

Brand + model links identify related Bently Nevada pages. They do not claim compatibility or substitution.

Service record

Retain exact identity, installed point, companion components, as-found condition, inspection evidence and machine-specific acceptance result.

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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