

# Installation Identity and Scope

Bently Nevada 990-05-70-01-05 is a two-wire, loop-powered vibration transmitter with an integrated Proximito interface for a 3300 NSv probe system. It provides a proportional 4-20 mA vibration signal plus dynamic vibration and gap-voltage access.

| INSTALLATION IDENTITY | REQUIRED VALUE                                         |
|-----------------------|--------------------------------------------------------|
| Complete model        | 990-05-70-01-05                                        |
| Manufacturer          | Bently Nevada                                          |
| Hardware type         | Vibration Transmitter                                  |
| System family         | 990 Vibration Transmitter                              |
| Official source       | Baker Hughes / Bently Nevada publication 141612 Rev. Y |

## CONTROLLED ENGINEERING COPY

Match the 3300 NSv probe and extension cable to the documented 7.0 m system length. Confirm loop supply, resistance, probe gap, scale option, DIN mounting and hazardous-area approval before commissioning.

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990-05-70-01-05

# Pre-Installation Plan

| NO. | REQUIRED ACTION                                               |
|-----|---------------------------------------------------------------|
| 1   | Verify the complete 990-05-70-01-05 marking.                  |
| 2   | Confirm the approved 3300 NSv probe and 7.0 m system length.  |
| 3   | Verify the 17 to 35 VDC loop supply and allowable resistance. |
| 4   | Record polarity, shield and grounding before wiring changes.  |
| 5   | Set the probe gap within the documented operating range.      |

## Matched Hardware

| CONTROL ITEM       | REQUIRED RECORD                             |
|--------------------|---------------------------------------------|
| Identity           | 990-05-70-01-05                             |
| Physical interface | 990-05-70-01-05 transmitter                 |
| Companion check    | Matched 3300 NSv probe and extension cable  |
| Configuration      | 17 to 35 VDC loop and receiving input       |
| Functional proof   | 35 mm DIN rail, shield and approved barrier |

### RELEASE HOLD POINT

Do not disturb the installed device until the exact marking, connections, companion hardware and configured function are documented.

## Wiring and Interface Checks

| CHECK    | MODEL-SPECIFIC REQUIREMENT               |
|----------|------------------------------------------|
| Identity | Confirm Bently Nevada 990-05-70-01-05.   |
| Probe    | Verify the approved 3300 NSv model.      |
| Length   | Confirm the complete 7.0 m chain.        |
| Loop     | Measure supply and calculate resistance. |
| Polarity | Verify loop wiring and shielding.        |
| Gap      | Record the static gap voltage.           |
| Scaling  | Verify 0 to 5 mil full scale.            |
| Signals  | Check 4-20 mA and dynamic output.        |

### CONFIGURATION BOUNDARY

Match the 3300 NSv probe and extension cable to the documented 7.0 m system length. Confirm loop supply, resistance, probe gap, scale option, DIN mounting and hazardous-area approval before commissioning.

## Expected Technical Values

| PARAMETER         | VALUE                                                |
|-------------------|------------------------------------------------------|
| Complete model    | 990-05-70-01-05                                      |
| Output            | Two-wire loop-powered 4-20 mA proportional vibration |
| Probe system      | 3300 NSv probe and matching extension cable          |
| Full-scale option | 05 = 0 to 5 mil peak-to-peak (0 to 125 um)           |

## Commissioning and Acceptance

| TEST         | ACCEPTANCE CONDITION                                    |
|--------------|---------------------------------------------------------|
| Identity     | Bently Nevada 990-05-70-01-05 is recorded.              |
| Loop         | Supply, resistance, polarity and shielding are correct. |
| Probe system | The matched 7.0 m NSv chain and gap are valid.          |
| Measurement  | 4-20 mA, gap and dynamic signals pass.                  |

## Technical Questions to Resolve

| QUESTION                                    | ENGINEERING ANSWER                                                                                                              |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| What is Bently Nevada 990-05-70-01-05?      | It is a two-wire loop-powered vibration transmitter with an integrated interface for a matched 3300 NSv proximity probe system. |
| What output does it provide?                | It provides a proportional 4-20 mA vibration output and access to dynamic vibration and gap voltage.                            |
| What does option 05 specify for full scale? | The first 05 option identifies a 0 to 5 mil peak-to-peak, or 0 to 125 $\mu$ m, vibration range.                                 |
| What system length is required?             | Option 70 identifies a 7.0 m probe and extension-cable system.                                                                  |

# Source, Related Products and Release

| MODEL                      | APTER POWER PAGE                                |
|----------------------------|-------------------------------------------------|
| Bently Nevada 135613-01-01 | <a href="#">View Bently Nevada 135613-01-01</a> |
| Bently Nevada 135826-01    | <a href="#">View Bently Nevada 135826-01</a>    |
| Bently Nevada 136188-01    | <a href="#">View Bently Nevada 136188-01</a>    |
| Bently Nevada 136294-01    | <a href="#">View Bently Nevada 136294-01</a>    |
| Bently Nevada 136703-01    | <a href="#">View Bently Nevada 136703-01</a>    |
| Bently Nevada 136711-01    | <a href="#">View Bently Nevada 136711-01</a>    |
| Bently Nevada 136711-02    | <a href="#">View Bently Nevada 136711-02</a>    |
| Bently Nevada 138708-01    | <a href="#">View Bently Nevada 138708-01</a>    |

## MANUFACTURER SOURCE RECORD

990 Vibration Transmitter Datasheet  
Baker Hughes / Bently Nevada publication 141612 Rev. Y

# Controlled Release Summary

| RELEASE ITEM  | REQUIRED EVIDENCE                           |
|---------------|---------------------------------------------|
| Identity      | 990-05-70-01-05 recorded                    |
| Interface     | Connections and companion hardware verified |
| Configuration | Installed values agree with approved record |

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