Bently Nevada 3300/55

Installation & Commissioning Guide

Bently Nevada 3300/55 is a two-channel continuous vibration monitor for Velomitor, high-temperature Velomitor or Velocity Seismoprobe transducers.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Accepts one or two velocity-transducer signals.

Feature 2

Supports multiple Bently Nevada seismic transducer families.

Feature 3

Uses selectable filtering for the intended machine response band.

Feature 4

Provides continuous channel status and vibration alarms.

TECHNICAL DATA SNAPSHOT

System family	3300 machinery protection
Monitor channels	2
Supported transducers	Velomitor, HTVS or Velocity Seismoprobe
Primary measurement	Velocity vibration

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

System family	**Monitor channels**
3300 machinery protection	2
Supported transducers	**Primary measurement**
Velomitor, HTVS or Velocity Seismoprobe	Velocity vibration
Filter control	**Alarm processing**
Field-programmable high- and low-pass corners	Independent Alert and Danger functions
Operator access	**Acceptance method**
Buffered transducer outputs and status indication	Verify amplitude, frequency response and alarm action on both channels

IMPORTANT NOTICE Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

DOCUMENT AND WORK CONTROLS

Manufacturer document	Bently Nevada 3300/55 Dual Velocity Monitor Datasheet 141516-01
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

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Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete 3300/55 marking and the documented dual velocity monitor position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed system family, monitor channels and supported transducers before removal.
04	De-energize the associated monitor, sensor supply or field circuit as the procedure requires.
05	Label every connector, conductor and shield before separation.
06	Inspect mating contacts, mounting hardware and cable condition before installation.
07	Restore the retained configuration and verify signal polarity and proportional response.
08	Function-test the complete alarm, indication and shutdown path before returning the machine to service.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Field device → **Product interface** → **System channel** → **Verified response**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC CHECKS

Bearing-housing vibration

Monitors velocity at machinery supports.

High-temperature service

Accepts signals from HTVS installations.

Machine protection

Applies Alert and Danger logic to velocity measurements.

Diagnostic access

Provides buffered signals for portable analysis.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

How is system family set on Bently Nevada 3300/55?	The documented system family is 3300 machinery protection; confirm it against the installed record.
What monitor channels belongs to Bently Nevada 3300/55?	The documented monitor channels is 2; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

Why verify supported transducers for Bently Nevada 3300/55?	The documented supported transducers is Velomitor, HTVS or Velocity Seismoprobe; confirm it against the installed record.
Where is primary measurement used by Bently Nevada 3300/55?	The documented primary measurement is Velocity vibration; confirm it against the installed record.
What controls filter control on Bently Nevada 3300/55?	The documented filter control is Field-programmable high- and low-pass corners; confirm it against the installed record.
How is alarm processing tested on Bently Nevada 3300/55?	The documented alarm processing is Independent Alert and Danger functions; confirm it against the installed record.
Which record preserves operator access for Bently Nevada 3300/55?	The documented operator access is Buffered transducer outputs and status indication; confirm it against the installed record.
Which acceptance method applies to Bently Nevada 3300/55?	The documented acceptance method is Verify amplitude, frequency response and alarm action on both channels; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 140482-01	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 330730-080-00-00	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 330910-00-11-10-02-05	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER DOCUMENT AND FINAL CONTROL

Manufacturer document	Bently Nevada 3300/55 Dual Velocity Monitor Datasheet 141516-01
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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