Bently Nevada 3300/65

Installation & Commissioning Guide

Bently Nevada 3300/65 is a two-channel Dual Probe Monitor that combines relative shaft and seismic housing signals for absolute shaft-vibration measurement.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Combines relative shaft motion with bearing-housing motion.

Feature 2

Provides two independent absolute-vibration channels.

Feature 3

Accepts separate proximity and seismic inputs for each channel.

Feature 4

Requires correct signal polarity and scale factors for vector calculation.

TECHNICAL DATA SNAPSHOT

System family	3300 machinery protection
Monitor channels	2
Relative input	Proximity transducer signal
Seismic input	Velocity or compatible housing-motion signal

SYSTEM RELATIONSHIP

Machine target → **Sensing tip** → **Coaxial signal path** → **Receiving electronics**

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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 3300 machinery protection	**Monitor channels** 2
Relative input Proximity transducer signal	**Seismic input** Velocity or compatible housing-motion signal
Calculated measurement Absolute shaft vibration	**Processing method** Vector combination of relative and casing motion
Configuration control Transducer scale, polarity and filter settings	**Acceptance method** Verify both input paths and the combined output per channel

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

DOCUMENT AND WORK CONTROLS

Manufacturer document	ApterPower product-specific technical reference
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 3300/65 marking and the documented dual probe monitor position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed system family, monitor channels and relative input 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.

Machine target → **Sensing tip** → **Coaxial signal path** → **Receiving electronics**

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

Absolute shaft vibration

Derives rotor motion relative to an inertial reference.

Flexible rotor trains

Separates shaft and casing movement contributions.

Bearing evaluation

Combines probe and seismic measurements at one location.

Legacy monitor replacement

Restores two configured dual-probe channels.

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

What controls system family on Bently Nevada 3300/65?	The documented system family is 3300 machinery protection; confirm it against the installed record.
How is monitor channels tested on Bently Nevada 3300/65?	The documented monitor channels is 2; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

Which record preserves relative input for Bently Nevada 3300/65?	The documented relative input is Proximity transducer signal; confirm it against the installed record.
Which seismic input applies to Bently Nevada 3300/65?	The documented seismic input is Velocity or compatible housing-motion signal; confirm it against the installed record.
How is calculated measurement set on Bently Nevada 3300/65?	The documented calculated measurement is Absolute shaft vibration; confirm it against the installed record.
What processing method belongs to Bently Nevada 3300/65?	The documented processing method is Vector combination of relative and casing motion; confirm it against the installed record.
Why verify configuration control for Bently Nevada 3300/65?	The documented configuration control is Transducer scale, polarity and filter settings; confirm it against the installed record.
Where is acceptance method used by Bently Nevada 3300/65?	The documented acceptance method is Verify both input paths and the combined output per channel; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 330910-00-11-10-02-05	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 9200-06-05-10-00	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 3500/61E 285694-02	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER DOCUMENT AND FINAL CONTROL

Manufacturer document	ApterPower product-specific technical reference
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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