Bently Nevada 3300/65

Technical Reference

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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Technical profile

Technical values for the complete product string are arranged below for selection and engineering review.

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

SELECTION ANCHORS

- Combines relative shaft motion with bearing-housing motion.
- Provides two independent absolute-vibration channels.
- Accepts separate proximity and seismic inputs for each channel.
- Requires correct signal polarity and scale factors for vector calculation.

IMPORTANT NOTICE	Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

MANUFACTURER DOCUMENT REFERENCE

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.

ADDITIONAL ENGINEERING CHECKS

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.

System role and architecture

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

APPLICATION POINTS

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.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional result	Record the expected static value, dynamic response and system status.

Use 3300/65 only in the documented monitoring chain and verify the complete signal path after controlled replacement.

ENGINEERING REVIEW 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.
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.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

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.

RELEASE CHECKS

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

IMPORTANT NOTICE	Confirm the complete 3300/65 identity and every mating interface before installation.

APPLICATION BOUNDARIES

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.

Technical questions and related models

MODEL-SPECIFIC 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.
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.

RELATED MODELS ON APTERPOWER

Bently Nevada 3500/94M 184826-01	Related product reference. Review the complete ordering string before selection.
Bently Nevada 140482-01	Related product reference. Compare the required interface and system position.
Bently Nevada 330730-080-00-00	Related product reference. Confirm the execution independently for the intended task.

DOCUMENT AND SELECTION RECORD

Manufacturer document	ApterPower product-specific technical reference
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