Bently Nevada 3300/21

Installation & Commissioning Guide

Bently Nevada 3300/21 is a legacy plug-in monitoring module for a 3300 machinery-protection rack.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Operates as a plug-in module in the 3300 rack.

Feature 2

Processes the configured machine-monitoring input.

Feature 3

Provides channel status and alarm logic.

Feature 4

Requires restoration of the original rack and field-interface configuration.

TECHNICAL DATA SNAPSHOT

System family	3300 machinery protection
Module format	Plug-in rack monitor
Primary role	Continuous machinery condition monitoring
Signal boundary	Installed transducer and rear I/O interface

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 3300 machinery protection	**Module format** Plug-in rack monitor
Primary role Continuous machinery condition monitoring	**Signal boundary** Installed transducer and rear I/O interface
Alarm function Configured Alert and Danger logic	**Operator interface** Front-panel status and buffered signal access
Replacement rule Retain rack position, jumpers and channel settings	**Acceptance method** Verify input, indication, alarm and relay response

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 3300/21 marking and the documented legacy 3300 monitoring module position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed system family, module format and primary role 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

Legacy rack maintenance

Restores a documented 3300 monitor position.

Continuous protection

Maintains online machine-condition supervision.

Alarm path renewal

Restores Alert and Danger processing.

Signal troubleshooting

Supports front-panel and buffered-output checks.

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

Why verify system family for Bently Nevada 3300/21?	The documented system family is 3300 machinery protection; confirm it against the installed record.
Where is module format used by Bently Nevada 3300/21?	The documented module format is Plug-in rack monitor; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

What controls primary role on Bently Nevada 3300/21?	The documented primary role is Continuous machinery condition monitoring; confirm it against the installed record.
How is signal boundary tested on Bently Nevada 3300/21?	The documented signal boundary is Installed transducer and rear I/O interface; confirm it against the installed record.
Which record preserves alarm function for Bently Nevada 3300/21?	The documented alarm function is Configured Alert and Danger logic; confirm it against the installed record.
Which operator interface applies to Bently Nevada 3300/21?	The documented operator interface is Front-panel status and buffered signal access; confirm it against the installed record.
How is replacement rule set on Bently Nevada 3300/21?	The documented replacement rule is Retain rack position, jumpers and channel settings; confirm it against the installed record.
What acceptance method belongs to Bently Nevada 3300/21?	The documented acceptance method is Verify input, indication, alarm and relay response; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 1900/65	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 990-05-50-01-05	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 991-06-XX-01-00	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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