Bently Nevada 3300/39-03-00

Installation & Commissioning Guide

Bently Nevada 3300/39-03-00 is a two-channel 3300 process-variable monitor for continuous supervision of conditioned analog process signals.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Monitors two process-variable channels in one rack position.

Feature 2

Scales conditioned analog inputs for local indication.

Feature 3

Provides independent alarm logic for each channel.

Feature 4

Requires restoration of input ranges and setpoints after replacement.

TECHNICAL DATA SNAPSHOT

System family	3300 machinery protection
Monitor channels	2
Input role	Conditioned analog process variables
Display function	Channel-level process indication

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	**Monitor channels** 2
Input role Conditioned analog process variables	**Display function** Channel-level process indication
Alarm function Independent configured channel alarms	**Rack interface** 3300 backplane and rear I/O
Configuration control Input range, scale and alarm setpoints	**Acceptance method** Simulate both input spans and verify alarm outputs

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 3300/39-03-00 marking and the documented dual-channel process variable monitor position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed system family, monitor channels and input 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.



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

Pressure supervision

Monitors a conditioned pressure signal.

Temperature conversion

Accepts a transmitter-scaled temperature variable.

Flow or level monitoring

Applies alarms to a conditioned process signal.

Legacy rack renewal

Restores a two-channel process monitor.

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

Which system family applies to Bently Nevada 3300/39-03-00?	The documented system family is 3300 machinery protection; confirm it against the installed record.
How is monitor channels set on Bently Nevada 3300/39-03-00?	The documented monitor channels is 2; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

What input role belongs to Bently Nevada 3300/39-03-00?	The documented input role is Conditioned analog process variables; confirm it against the installed record.
Why verify display function for Bently Nevada 3300/39-03-00?	The documented display function is Channel-level process indication; confirm it against the installed record.
Where is alarm function used by Bently Nevada 3300/39-03-00?	The documented alarm function is Independent configured channel alarms; confirm it against the installed record.
What controls rack interface on Bently Nevada 3300/39-03-00?	The documented rack interface is 3300 backplane and rear I/O; confirm it against the installed record.
How is configuration control tested on Bently Nevada 3300/39-03-00?	The documented configuration control is Input range, scale and alarm setpoints; confirm it against the installed record.
Which record preserves acceptance method for Bently Nevada 3300/39-03-00?	The documented acceptance method is Simulate both input spans and verify alarm outputs; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 3500/50E	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 3500/23E	Installation-planning reference. Compare the required interface and system position.
Bently Nevada TACH100-01 174652-01	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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