Bently Nevada 330750-40

Installation & Commissioning Guide

Bently Nevada 330750-40 is a High-Temperature Velomitor sensor system with a four-metre integral cable between the sensing head and remote electronics.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Separates the sensing head from its electronic conditioning section.

Feature 2

Uses a four-metre integral high-temperature cable.

Feature 3

Produces a velocity-proportional output for casing vibration.

Feature 4

Supports long field-cable runs to compatible monitoring equipment.

TECHNICAL DATA SNAPSHOT

Sensor family	330750 High-Temperature Velomitor
Integral cable length	4 m
Sensitivity	5.7 mV/mm/s (145 mV/in/s)
Broadband response	15 to 2000 Hz within the documented band

SYSTEM RELATIONSHIP

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

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.

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

Sensor family 330750 High-Temperature Velomitor	**Integral cable length** 4 m
Sensitivity 5.7 mV/mm/s (145 mV/in/s)	**Broadband response** 15 to 2000 Hz within the documented band
Precision response 20 to 1000 Hz within the documented band	**Sensing-head environment** High-temperature machine surface
Electronics location Remote from the hot sensing point	**Maximum field cable** 305 m to compatible monitoring equipment

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

DOCUMENT AND WORK CONTROLS

Manufacturer document	Bently Nevada 330750 and 330752 High-Temperature Velomitor System Datasheet 141639
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.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.

Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete 330750-40 marking and the documented high-temperature velomitor sensor system position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed sensor family, integral cable length and sensitivity 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

Gas turbine casing

Measures velocity on high-temperature housings.

Steam turbine bearing housing

Monitors casing vibration near hot surfaces.

Exhaust equipment

Places electronics away from elevated temperatures.

Machine protection retrofit

Restores a documented high-temperature velocity channel.

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

Where is sensor family used by Bently Nevada 330750-40?	The documented sensor family is 330750 High-Temperature Velomitor; confirm it against the installed record.
What controls integral cable length on Bently Nevada 330750-40?	The documented integral cable length is 4 m; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

How is sensitivity tested on Bently Nevada 330750-40?	The documented sensitivity is 5.7 mV/mm/s (145 mV/in/s); confirm it against the installed record.
Which record preserves broadband response for Bently Nevada 330750-40?	The documented broadband response is 15 to 2000 Hz within the documented band; confirm it against the installed record.
Which precision response applies to Bently Nevada 330750-40?	The documented precision response is 20 to 1000 Hz within the documented band; confirm it against the installed record.
How is sensing-head environment set on Bently Nevada 330750-40?	The documented sensing-head environment is High-temperature machine surface; confirm it against the installed record.
What electronics location belongs to Bently Nevada 330750-40?	The documented electronics location is Remote from the hot sensing point; confirm it against the installed record.
Why verify maximum field cable for Bently Nevada 330750-40?	The documented maximum field cable is 305 m to compatible monitoring equipment; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

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

MANUFACTURER DOCUMENT AND FINAL CONTROL

Manufacturer document	Bently Nevada 330750 and 330752 High-Temperature Velomitor System Datasheet 141639
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.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.