Bently Nevada 1900/27-02-00

Installation & Commissioning Guide

Bently Nevada 1900/27-02-00 is a stand-alone single-channel vibration monitor for continuous machinery protection.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Provides one continuous vibration-monitoring channel.

Feature 2

Operates as a stand-alone protection device.

Feature 3

Processes configured alarm thresholds from the matched transducer input.

Feature 4

Supports compact machine or package-equipment protection.

TECHNICAL DATA SNAPSHOT

System family	1900 machinery monitor
Monitor channels	1
Installation format	Stand-alone monitor
Primary measurement	Continuous vibration

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 1900 machinery monitor	**Monitor channels** 1
Installation format Stand-alone monitor	**Primary measurement** Continuous vibration
Alarm processing Configured Alert and Danger functions	**Field interface** Matched vibration transducer and monitor wiring
Output role Local indication and protective status	**Acceptance method** Inject a controlled signal and prove alarm transitions

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 1900/27-02-00 marking and the documented single-channel vibration monitor position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed system family, monitor channels and installation format 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

Pump protection

Monitors one critical vibration point.

Fan monitoring

Provides a compact single-channel alarm.

Package equipment

Adds stand-alone vibration protection.

Legacy monitor replacement

Restores the existing one-channel loop.

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 record preserves system family for Bently Nevada 1900/27-02-00?	The documented system family is 1900 machinery monitor; confirm it against the installed record.
Which monitor channels applies to Bently Nevada 1900/27-02-00?	The documented monitor channels is 1; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

How is installation format set on Bently Nevada 1900/27-02-00?	The documented installation format is Stand-alone monitor; confirm it against the installed record.
What primary measurement belongs to Bently Nevada 1900/27-02-00?	The documented primary measurement is Continuous vibration; confirm it against the installed record.
Why verify alarm processing for Bently Nevada 1900/27-02-00?	The documented alarm processing is Configured Alert and Danger functions; confirm it against the installed record.
Where is field interface used by Bently Nevada 1900/27-02-00?	The documented field interface is Matched vibration transducer and monitor wiring; confirm it against the installed record.
What controls output role on Bently Nevada 1900/27-02-00?	The documented output role is Local indication and protective status; confirm it against the installed record.
How is acceptance method tested on Bently Nevada 1900/27-02-00?	The documented acceptance method is Inject a controlled signal and prove alarm transitions; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 3500/61 136711-02	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 170180-01-00	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 1900/65	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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