Bently Nevada 1900/65

Complete Product Information

Bently Nevada 1900/65 combines vibration and temperature monitoring in a compact stand-alone protection platform for essential and balance-of-plant machinery.

WHAT THIS PRODUCT DOES

Bently Nevada 1900/65 is an eight-input general-purpose machinery monitor with four vibration channels, four temperature channels, configurable alarms, relay outputs and proportional outputs.

Product characteristic 1

Accepts four vibration and four temperature inputs.

Product characteristic 2

Provides configurable Alert and Danger processing.

Product characteristic 3

Includes six relay outputs and four proportional outputs.

Product characteristic 4

Supports optional local or remote indication and software configuration.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Dynamic inputs	Four vibration channels
Temperature inputs	Four channels
Alarm levels	Alert and Danger
Relay outputs	Six configurable relays

IMPORTANT NOTICE

Confirm the complete 1900/65 hardware, channel map and firmware before replacement. Record the final configuration file and complete cause-and-effect acceptance results.

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Scan the approved WhatsApp code for model-specific support.

Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Dynamic inputs	Four vibration channels
Temperature inputs	Four channels
Alarm levels	Alert and Danger
Relay outputs	Six configurable relays
Proportional outputs	Four 4–20 mA outputs
Configuration	Windows-based configuration software
Display	Optional local or remote display
Buffered outputs	Available for portable diagnostic connection

FEATURE INTERPRETATION

Product identity

Accepts four vibration and four temperature inputs.

System role

Provides configurable Alert and Danger processing.

Service context

Includes six relay outputs and four proportional outputs.

Return-to-service focus

Supports optional local or remote indication and software configuration.

SIGNAL OR CONTROL PATH

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

The stand-alone monitor protects smaller rotating assets that do not require a full rack system. Each input, measured variable, alarm, relay vote and recorder scale must be tied to the machine protection philosophy.

PRODUCT-PAGE TECHNICAL QUESTIONS

How many vibration inputs are available on 1900/65?	It provides four dynamic vibration channels.
Which temperature sensor groups can be assigned to 1900/65?	The monitor supports four temperature inputs for the documented thermocouple or RTD types.
How many independent relay outputs can protection logic use on 1900/65?	Six configurable relays are available.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

Cooling-tower fan protection

Combines casing vibration and temperature inputs for continuous supervision.

Pump and blower monitoring

Provides local protection for essential balance-of-plant machines.

Small compressor packages

Adds configurable alarms and relays to skid-mounted equipment.

Motor and centrifuge protection

Uses vibration, temperature and proportional outputs for continuous monitoring.

APPLICATION VERIFICATION MAP

Cooling-tower fan protection	Confirm the documented system position and the required operating function.
Pump and blower monitoring	Compare the restored connection or control path with the approved record.
Small compressor packages	Check the physical interface and the retained configuration before startup.
Motor and centrifuge protection	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record

Complete marking and assigned system position.

Connection record

Connector, conductor and interface arrangement as found.

Configuration record

Controlled settings, application data and option state.

Acceptance record

Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION QUESTIONS

How many independent relay outputs can protection logic use on 1900/65?	Six configurable relays are available.
Which analog interface sends measured values from to another system 1900/65?	Four configurable 4–20 mA recorder outputs are provided.
Can operate without the optional display 1900/65?	Yes. The monitor functions independently, while the display adds local or remote indication.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Confirm the complete 1900/65 hardware, channel map and firmware before replacement.
02	Identify every vibration and temperature input before disconnecting wiring.
03	Match sensor type, sensitivity and power requirements to each dynamic channel.
04	Verify thermocouple or RTD type and polarity on every temperature input.
05	Restore Alert, Danger, relay voting and recorder-output scaling from the approved configuration.
06	Check optional display and communication connections before energizing.
07	Function-test alarms, relays, buffered outputs and 4–20 mA channels with controlled inputs.
08	Record the final configuration file and complete cause-and-effect acceptance results.

FREQUENTLY ASKED TECHNICAL QUESTIONS

How many vibration inputs are available on 1900/65?	It provides four dynamic vibration channels.
Which temperature sensor groups can be assigned to 1900/65?	The monitor supports four temperature inputs for the documented thermocouple or RTD types.
How many independent relay outputs can protection logic use on 1900/65?	Six configurable relays are available.
Which analog interface sends measured values from to another system 1900/65?	Four configurable 4–20 mA recorder outputs are provided.

IMPORTANT NOTICE	Confirm the complete 1900/65 hardware, channel map and firmware before replacement. Record the final configuration file and complete cause-and-effect acceptance results.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, configuration control and related models

ADDITIONAL TECHNICAL QUESTIONS

Can operate without the optional display 1900/65?	Yes. The monitor functions independently, while the display adds local or remote indication.
Why must the channel configuration file be preserved for 1900/65?	Sensor type, filters, scales, alarms, relay voting and outputs are software-configured.
Which checks distinguish input commissioning from relay proof testing on 1900/65?	First verify each measured signal and scale, then drive the configured alarm logic and observe every assigned relay.
What acceptance record should close work on 1900/65?	Record input response, Alert/Danger thresholds, relay voting, recorder outputs and any display or communication checks.

CONFIGURATION CONTROL RECORD

Configuration identity	Bently Nevada 1900/65
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

RELATED MODELS ON APTERPOWER

Bently Nevada 1701/15	Related product reference. Review the complete ordering string before selection.
Bently Nevada 170180-01-00	Related product reference. Compare the required interface and system position.
Bently Nevada 170180-01-05	Related product reference. Confirm the execution independently for the intended task.

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