Bently Nevada 1900/65

Technical Reference

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 ROLE AND VERIFIED FEATURES

Feature 1

Accepts four vibration and four temperature inputs.

Feature 2

Provides configurable Alert and Danger processing.

Feature 3

Includes six relay outputs and four proportional outputs.

Feature 4

Supports optional local or remote indication and software configuration.

VERIFIED DATA SNAPSHOT

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

SYSTEM RELATIONSHIP

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

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Technical profile

Verified technical values for the complete product string are arranged below for selection and engineering review.

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

SELECTION ANCHORS

- Accepts four vibration and four temperature inputs.
- Provides configurable Alert and Danger processing.
- Includes six relay outputs and four proportional outputs.
- Supports optional local or remote indication and software configuration.

IMPORTANT NOTICE	Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

CONFIGURATION CONTROL

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.

ADDITIONAL ENGINEERING CHECKS

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.

System role and architecture

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

APPLICATION POINTS

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.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional evidence	Record the expected static value, dynamic response and system status.

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.

ENGINEERING REVIEW 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.

Engineering checks and acceptance

PRODUCT 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.

RELEASE EVIDENCE

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

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.

APPLICATION BOUNDARIES

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.

Technical questions and related models

MODEL-SPECIFIC 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.
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.

RELATED MODELS ON APTERPOWER

Bently Nevada 9200-09-01-06-04	Related product reference. Review the complete ordering string before selection.
Bently Nevada 990-05-70-02-00	Related product reference. Compare the required interface and system position.
Bently Nevada 990-05-70-02-01	Related product reference. Confirm the execution independently for the intended task.

CONFIGURATION AND SELECTION RECORD

Configuration identity	Bently Nevada 1900/65
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
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