Bently Nevada 1900/65A-00-00-01-00-00

01 Function and selected configuration

Product function

Bently Nevada 1900/65A-00-00-01-00-00 brings vibration, position or speed measurements and temperature measurements into a standalone protection unit with configurable relay logic and analog recorder signals.

Selected configuration

18-36 V DC power, no display, DIN rail mounting, no agency-approval option and no Modbus option. Channel processing is configured in software for the connected transducers. Temperature inputs support thermocouples or two- and three-wire RTDs, while alarm conditions can combine channel statuses through the relay logic.

Functional path

4 transducer + 4 temperature inputs	Configured variables	Alarm and relay logic	Relays / 4-20 mA outputs

Inputs	Four configurable transducer channels and four temperature channels
Outputs	Six programmable SPDT relays and four 4-20 mA recorder outputs
Configuration	Built-in Ethernet connection; no optional Modbus feature

The selected unit omits the display and Modbus option. The built-in Ethernet configuration connection still allows a PC to transfer settings, which the monitor retains in non-volatile memory.

1900/65A-00-00-01-00-00 / Technical operating envelope

02 Technical operating envelope

DC input supply	18-36 V DC
Operating current	0.35 A typical; 1.0 A maximum
Operating power	8.5 W typical; 14 W maximum
Transducer inputs	4; acceleration, velocity, radial vibration, thrust, position or speed
Temperature inputs	4; E/J/K/T thermocouples or 2-/3-wire RTDs
Relay outputs	6 SPDT; programmable logic
Maximum relay operands	50 per relay
Recorder outputs	4 x 4-20 mA; configurable channel/variable
Maximum recorder loop resistance	600 ohms

Recorder update interval	100 ms
Configuration retention	Non-volatile memory
Configuration interface	Built-in Ethernet
Display configuration	No display
Modbus option	Not included
DIN rail	35 mm
Operating temperature	-20 to +70 deg C
Operating humidity	95% maximum; non-condensing

Optional display and Modbus descriptions in the family reference are not supplied features of this order code. The recorder loops and field transducers require their own compatible electrical connections.

1900/65A-00-00-01-00-00 / System integration and applications

03 System integration and applications

Pump and fan monitoring

Combine suitable vibration channels with bearing-temperature inputs for continuously observed machinery.

Temperature-assisted protection

Bring compatible thermocouples or RTDs into the same unit as mechanical-condition measurements.

Relay-based machine interfaces

Implement reviewed channel-voting logic for separate warning or protective contacts.

Analog recorder integration

Transmit selected variables to compatible analog inputs using independently assigned 4-20 mA outputs.

System and supply context

This selected configuration has DC power and a DIN mount, with no display and no Modbus option. Sensors, recorder loops and trip wiring are installed according to the channel configuration.

Application boundary

Use the monitor on general-purpose equipment that needs continuous machinery condition monitoring and protection. Machine-specific thresholds and relay actions must be engineered for the application.

Does the Ethernet connector make 1900/65A-00-00-01-00-00 a Modbus-enabled unit?

No. Ethernet configuration access and the optional Modbus Gateway are different functions. The final 00 option specifies no Modbus communication feature.

1900/65A-00-00-01-00-00 / Engineering selection decisions

04 Engineering selection decisions

Can 1900/65A-00-00-01-00-00 be configured without an attached display?

Yes. A PC uses the 1900 Configuration Software and built-in Ethernet connection to download and retrieve the configuration. The monitor stores the settings in non-volatile memory.

Which sensor categories can the four transducer inputs of 1900/65A-00-00-01-00-00 process?

Software can configure the channels for acceleration, velocity, radial vibration, thrust, position or speed. The channel type and input electrical arrangement must match the connected sensor.

What distinguishes AND from True AND in 1900/65A-00-00-01-00-00 relay logic?

AND ignores bypassed channels, while True AND includes bypassed channels. This difference must be considered when proving the voting response during channel bypass or maintenance.

Which temperature wiring can 1900/65A-00-00-01-00-00 accept?

Each temperature input supports E, J, K or T thermocouples and two- or three-wire RTDs. Configure the actual sensor type; two-wire RTD measurements also include lead-resistance error.

Check output assignments	Match each recorder variable and full scale to the receiving input.
Prove voting logic	Test normal, alarm, Not OK, bypass and reset behavior against the approved logic.

1900/65A-00-00-01-00-00 / Configuration boundary and references

05 Configuration boundary and references

Lifecycle and support

The current manufacturing and OEM support stages for 1900/65A-00-00-01-00-00 require confirmation from Bently Nevada. Apter Power availability is confirmed separately.

Replacement assessment

Retain all five configuration options, channel settings, relay voting and recorder assignments when evaluating a replacement monitor.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains configuration and selection boundaries. The independent installation guide organizes preparation, connection, testing and handover. It does not replace the applicable manufacturer installation instructions.

Technical basis

1900/65A General Purpose Equipment Monitor, 173401 Rev. AC.

Related product navigation

- Bently Nevada 1900/65
- Bently Nevada 1900/65A 172323-01
- Bently Nevada 330180-50-00

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries