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

01 Function and selected configuration

Product function

Bently Nevada 1900/65A-00-01-01-00-00 supports local observation of machine condition in a DIN-mounted installation, bringing vibration and temperature variables onto an attached display while relay logic handles the configured protective actions.

Selected configuration

18-36 V DC, attached display without a separate display cable, 35 mm DIN rail mounting, no agency-approval option and no Modbus option. The attached display provides channel readings and access to minor settings. Full channel processing, relay logic and recorder assignments are configured with a PC; the approved configuration is retained in non-volatile memory.

Functional path

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

Measurement inputs	Four transducer channels plus four temperature channels
Local access	Attached display; PC configuration through Ethernet
Protective outputs	Six programmable relays and four 4-20 mA recorders

The final 00 selection omits Modbus. Ethernet remains available for configuration transfer, while the four recorder outputs provide independently assigned analog variables to receiving equipment.

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

02 Technical operating envelope

Supply configuration	18-36 V DC
Display	Attached; no separate cable
Mounting / enclosure	35 mm DIN rail mounting
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
Modbus	Not included

The display, power and mounting selections are specific to 1900/65A-00-01-01-00-00. The DIN-mounted monitor requires installation protection appropriate to its environment.

Buffered signal access

Unscaled transducer outputs have 550 ohms impedance and at least 40 kHz bandwidth. The display adds selectable buffered access.

Recorder behavior

Accuracy is 2% across operating temperature. A configurable 2 mA +/-10% clamp indicates Not OK or bypass.

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

03 System integration and applications

Local condition display

Read configured channel values at the machine-monitoring position using the attached display.

Combined thermal and vibration monitoring

Pair compatible bearing-temperature circuits with the selected vibration measurements.

Programmable protection contacts

Use reviewed relay expressions to combine warning, danger and channel-health states.

Analog trend recording

Send selected variables to recording or control inputs using four independently assigned current loops.

System and supply context

18-36 V DC, attached display without a separate display cable, 35 mm DIN rail mounting, no agency-approval option and no Modbus option. Sensors and external receiver circuits are selected to match the configured input and output channels.

Application boundary

Suitable general-purpose machines may combine vibration, temperature and discrete protection. The examples describe integration roles, not preconfigured alarm settings or a universal machine-protection design.

What DC capacity should be allocated to 1900/65A-00-01-01-00-00?

The monitor accepts 18-36 V DC. Typical demand is 0.35 A and 8.5 W; maximum values are 1 A and 14 W. Include the rest of the cabinet load when sizing the supply.

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

04 Engineering selection decisions

How is local channel information viewed on 1900/65A-00-01-01-00-00?

The BB01 selection includes an attached display, without a separate display cable. It presents channel readings and allows minor setting changes; full configuration remains a PC software task.

Does the DIN mount on 1900/65A-00-01-01-00-00 provide environmental sealing?

No. A 35 mm DIN attachment supports the monitor mechanically; it is not the weatherproof-housing selection. Provide the enclosure protection required by the installation.

How quickly do recorder signals update on 1900/65A-00-01-01-00-00?

The four 4-20 mA recorder outputs update every 100 ms. Each represents its assigned variable and configured full scale, which must match the receiving instrument.

Can the attached display replace Modbus for remote data collection on 1900/65A-00-01-01-00-00?

No. Local display access does not provide a Modbus Gateway. This final-00 configuration uses relay contacts or assigned recorder loops for external process interfaces; Ethernet still supports PC configuration.

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-00-01-01-00-00 / Configuration boundary and references

05 Configuration boundary and references

Lifecycle and support

The current manufacturing and OEM support stages for 1900/65A-00-01-01-00-00 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