01 / Identity and job scope

BENTLY NEVADA

3300-35-03-02-02-01-00

Temperature Monitor

Product role

Bently Nevada 3300-35-03-02-02-01-00 is a six-channel RTD temperature monitor configured for 0–400°F, three-wire 100Ω platinum inputs and hermetically sealed relays.

Sensors
Up to six compatible RTDs

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Monitor
3300/35 temperature processing

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Outputs
Display, recorder and alarms

Applicability

The 3300/35 ordering definition maps the offered 3300-35-03-02-02-01-00 to the stated RTD, range and relay selections. Field-programmable settings and approval applicability require verification on the supplied assembly.

Hardware and configuration

Bently Nevada 3300-35-03-02-02-01-00 uses the 3300/35 RTD input design. Range option 03 selects 0–400°F and input option 02 selects three-wire 100Ω platinum RTDs with an alpha of 0.00385. The relay selection is hermetically sealed, the agency option is CSA/NRTL/C, and the safety-barrier option is none. Confirm the supplied assembly and approval marking before relying on those selections in an installation.

Planning basis

This Apter Power guide supports identification and engineering planning. Apply the complete manufacturer and machine-builder procedures for the actual installation.

02 / Configuration and interface readiness

Item	Configuration relationship
Input channels	Up to six RTDs
Ordered range	03: 0–400°F
RTD input	02: Three-wire 100Ω platinum, α = 0.00385
Alarm relays	02: Hermetically sealed
Agency option	01: CSA/NRTL/C; supplied approval marking must match
Safety barriers	00: None
Nominal power	4 W

Technical context

The monitor accepts up to six independent RTD signals and has a nominal power consumption of 4 W. It provides an independent recorder output for each channel, selectable as 4–20 mA, +1 to +5 Vdc or 0 to −10 Vdc, proportional to the programmed full-scale range. At +25°C, display accuracy is within 1°C when the tenths digit is displayed and 1.5°C without the tenths digit; output accuracy has its own additional terms.

How many temperature channels can 3300-35-03-02-02-01-00 monitor?

The 3300/35 design accepts up to six RTD signals and monitors them as independent temperature channels.

Which recorder signals can 3300-35-03-02-02-01-00 provide?

Each channel has a selectable 4–20 mA, +1 to +5 Vdc or 0 to −10 Vdc output proportional to the configured full-scale range. Match the receiving system and output setting.

03 / Installation and connection decisions

Match RTD characteristics

Use the selected three-wire 100Ω platinum characteristic, alpha 0.00385, and verify lead connections.

Confirm range and units

Check 0–400°F ordering identity against the actual configured scale and display units.

Verify relay hardware

Match the hermetic relay selection and the installed alarm logic to the machine protection design.

Check recorder loading

Select the proper current or voltage mode and confirm compatible receiver loading and scaling.

Installation context

A common four-digit LCD supports channel scanning and highest-reading selection, while status indications identify OK, alarms and bypass conditions. Alarm 1 is an over-temperature alarm; Alarm 2 can be configured for over- or under-temperature operation. The monitor occupies two rack positions outside the power-supply and system-monitor locations. Verify sensor wiring, recorder scaling, relay configuration and calibration after changing the monitor or power supply.

How are the two alarms used on 3300-35-03-02-02-01-00?

Alarm 1 is an over-alarm. Alarm 2 can be programmed as an over- or under-alarm. Setpoints and relay behavior must match the machine protection design.

How much rack space does 3300-35-03-02-02-01-00 require?

It occupies two rack positions. Do not use the reserved power-supply and system-monitor positions.

04 / Functional acceptance planning

Application	Controlled review
Bearing temperature monitoring	Observe compatible three-wire platinum RTDs at bearing temperature points, with scaling and alarm limits selected for the machine.
Multi-point temperature observation	Collect up to six independent RTD channels in a common monitor while retaining channel-specific status and recorder outputs.
Recorder integration	Provide the selected analog recorder signal to a compatible receiving system and align full-scale scaling at both ends.
Temperature alarm integration	Use the configured over-temperature and selectable over/under alarm functions with the intended relay and machine protection arrangement.

Does 3300-35-03-02-02-01-00 include safety barriers?

The final 00 selects no safety barriers. The 01 agency selection does not by itself provide an intrinsically safe sensor circuit.

When should calibration be checked for 3300-35-03-02-02-01-00?

Check and recalibrate as needed when a spare monitor or power supply is installed. Recheck the selected RTD type, programmed range and recorder scaling before service.

Release boundary

Check channel indication, alarm behavior, bypass removal and recorder response under a controlled acceptance procedure.

Record
Keep the original configuration

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Test
Observe controlled response

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Release
Authorize normal operation

05 / Technical handover and support

Retained information

Keep the complete 3300-35-03-02-02-01-00 marking, host identity, connection photographs, configuration backup and controlled-test results in the service record.

Support planning

Confirm current support and replacement guidance with Bently Nevada for the installed identity and configuration. Apter Power availability and dispatch are separate quotation matters.

Reference basis

Bently Nevada 3300/30 and 3300/35 Six-Channel Temperature Monitors, 141503-01 Rev. H.

Apter Power technical summary. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Bently Nevada 21000-28-10-00-098-04-02

Bently Nevada 21000-28-10-00-217-04-02

Bently Nevada 21000-16-10-15-114-03-02

Discuss your installed configuration

Send the full unit marking and connection details.

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