01 / Identity and input architecture

BENTLY NEVADA

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

Temperature Monitor

Input function

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.

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.

02 / RTD inputs and configured range

Property	Verified monitor 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

Recorder and display behavior

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.

03 / Alarm and rack integration

Property	Applicable monitor characteristic
Recorder outputs	Per channel: selectable 4–20 mA, +1 to +5 Vdc or 0 to −10 Vdc
Display	Common four-digit LCD; 0.1 or 1 resolution selectable
Display accuracy	At +25°C: within 1°C with tenths digit; 1.5°C without
Rack requirement	Two monitor positions
Operating temperature	0°C to +65°C

Alarm and 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.

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.

04 / Signal integration and diagnostics

Application	Engineering relationship
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.

What temperature range is ordered for 3300-35-03-02-02-01-00?

Range option 03 is 0–400°F. Confirm the installed scaling and calibration because field-programmable settings can be changed.

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.

05 / Technical handover and references

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.

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 3300/12-01-20-01

Bently Nevada 3300/12-02-22-00

Bently Nevada 3300/14-01-20-00

Discuss your installed configuration

Send the full unit marking and connection details.

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