Bently Nevada 3300/55-01-04-02-02-00-00-05-00

01 Product function and configuration

Exact product role

Bently Nevada 3300/55-01-04-02-02-00-00-05-00 applies two seismic or velocity-transducer channels with selectable measurement processing to absolute casing vibration monitoring, using the exact Channel A 0–1 in/s pk; Channel B 0–1 in/s pk scale and the selected interface options.

Technical specification summary

Technical item	Specification
Measurement function	dual-channel velocity or integrated displacement
Selected channel ranges	Channel A 0–1 in/s pk; Channel B 0–1 in/s pk
Transducer and processing	Velomitor, 100 mV/in/s; peak velocity
Channel count	2 independent measurement channels
Alarm relay option	Epoxy-sealed
Safety-barrier option	None
Agency approval option	None
Range multiplier	None
Channel comparison	Input, local indication and alarm response
Acceptance method	Independent response check for both channels

Selected characteristics

Uses the selected Channel A 0–1 in/s pk; Channel B 0–1 in/s pk measurement range.
Range and unit selection

Accepts Velomitor, 100 mV/in/s; peak velocity.
Input compatibility

Uses epoxy-sealed alarm relay hardware.
Output hardware

Uses the base range without a multiplication option.
Interface selection

Configuration notice

Match the complete 3300/55-01-04-02-02-00-00-05-00 order code, input source and rear connection assembly before installation; then verify each channel through a controlled response test.

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02 Technical selections in context

Configured measurement path

Order-code function	Selected configuration
Measurement range	Channel A 0–1 in/s pk; Channel B 0–1 in/s pk
Input / processing	Velomitor, 100 mV/in/s; peak velocity
Alarm relay option	Epoxy-sealed
Safety-barrier option	None
Approval selection	None
Range multiplier	None

Signal-chain interpretation

The transducer, field wiring, monitor input, selected span and output path form one chain. Confirm them together when diagnosing scale, polarity, alarm or recorder discrepancies.

Technical decisions

Range suitability
Confirm Channel A 0–1 in/s pk; Channel B 0–1 in/s pk covers the intended machine behavior.

Input match
Use Velomitor, 100 mV/in/s; peak velocity and preserve its sensitivity.

Output match
Apply Epoxy-sealed relay hardware as selected.

Interface match
Apply None barrier arrangement and None multiplication.

Do not infer unspecified data

Only exact-model technical selections are stated. Installation-specific setpoints, channel destinations and machine limits must be taken from the controlled site configuration.

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03 Applications and commissioning logic

Application areas

Absolute Casing Vibration Monitoring
Apply the selected Channel A 0–1 in/s pk; Channel B 0–1 in/s pk span to the intended machine measurement.

Two-channel condition monitoring
Keep channel identity from the field transducer through indication and alarms.

Controlled maintenance testing
Inject or apply a known change and compare each response stage.

Protection-system integration
Verify the selected relay and barrier interface with the receiving circuit.

Commissioning logic

01	Confirm model identity and rear interface.
02	Check input family and selected range.
03	Prove channel assignment with a controlled change.
04	Test indication, recorder output and alarm behavior separately.
05	Restore normal configuration and record the result.

Selected checks

Technical check	Required value
Alarm relay option	Epoxy-sealed
Safety-barrier option	None
Agency approval option	None
Range multiplier	None
Channel comparison	Input, local indication and alarm response
Acceptance method	Independent response check for both channels

Machine application

3300/55 Dual Velocity Monitor is used for 55-family monitoring functions represented by the selected input and range. Apply site alarm limits only after the complete response is confirmed.

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04 Model-specific technical questions

Questions 1–4

Can 3300/55-01-04-02-02-00-00-05-00 use setpoints copied from a monitor with a different range?
The selected measurement span is Channel A 0–1 in/s pk; Channel B 0–1 in/s pk. Alarm and recorder scaling must be checked against that span rather than copied from a different range option.

How should the Velomitor, 100 mV/in/s; peak velocity source be checked before connecting 3300/55-01-04-02-02-00-00-05-00?
This configuration uses Velomitor, 100 mV/in/s; peak velocity. Preserve the transducer family, sensitivity and signal polarity as one measurement chain.

How should the epoxy-sealed alarm relays in 3300/55-01-04-02-02-00-00-05-00 be tested?
The selected alarm output uses epoxy-sealed relay hardware. Contact logic, energization and downstream wiring still require a functional test.

Can a safety barrier be added to 3300/55-01-04-02-02-00-00-05-00 without reviewing the signal loop?
No safety-barrier option is selected. Do not move field conductors from a barrier-equipped circuit without an engineering review.

Selected hardware context

Item	Configuration
Measurement range	Channel A 0–1 in/s pk; Channel B 0–1 in/s pk
Input / processing	Velomitor, 100 mV/in/s; peak velocity
Alarm relay option	Epoxy-sealed
Safety-barrier option	None
Approval selection	None
Range multiplier	None

Question scope

The questions focus on the range, input and interface options in this exact model. They are not generic interchangeability claims for every monitor in the same family.

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05 Configuration, testing and related products

Questions 5–8

Why does a similar approved monitor not establish approval for 3300/55-01-04-02-02-00-00-05-00?
No agency-approval option is selected in this order code. Do not infer an approval from another unit in the same monitor family.

Why must multiplier jumpers be checked even though 3300/55-01-04-02-02-00-00-05-00 selects no multiplication?
No range multiplier is selected, so the stated scale is the active base range. A multiplied setting from another monitor must not be transferred.

Which functional test should precede return of 3300/55-01-04-02-02-00-00-05-00 to service?
Apply a controlled input change to one identified channel at a time, then compare the local indication, buffered or recorder signal, alarm state and return to normal.

Which technical settings should be recorded after commissioning 3300/55-01-04-02-02-00-00-05-00?
Record the complete model, Channel A 0–1 in/s pk; Channel B 0–1 in/s pk scale, Velomitor, 100 mV/in/s; peak velocity input, relay and barrier choices, channel assignments, setpoints, delays and the observed acceptance results.

Related Bently Nevada products

Bently Nevada 990-04-50-02-00

Bently Nevada 04300111

Bently Nevada 330180-X1-05-MOD-143416-02

Bently Nevada 128276-01F-131151-01

Selection caution

Related links support product comparison only. Confirm input family, sensitivity, range, relay hardware, barriers and approvals for every alternative before selection.

Release criterion

Return the channel to service only after its measured response, output behavior and protection-state restoration agree with the approved machine configuration.