Bently Nevada 3300/55-01-04-18-18-00-00-05-00

01 Exact-model technical scope

Configuration represented by this reference

Bently Nevada 3300/55-01-04-18-18-00-00-05-00 is a two-channel velocity monitor configured for 100 mV/in/s Velomitor inputs and 0–20 mm/s RMS ranges on both channels. It uses epoxy-sealed alarm relays without a safety barrier, agency-approval option or trip multiplier. This reference treats the complete order code as one configuration; values from another range, input, relay or barrier variant are not transferred into this selection.

Selected technical configuration

Technical item	Selected value
Measurement function	dual-channel machinery casing vibration
Channel count	2 independent online channels
Selected channel ranges	Channel A 0–20 mm/s RMS; Channel B 0–20 mm/s RMS
Selected transducer sensitivity	Velomitor, 100 mV/in/s
Unfiltered Velomitor frequency response	3–3000 Hz, -3 dB nominal
High-pass corner selection	3–400 Hz
Low-pass corner selection	24–3000 Hz
Recorder output selections	4–20 mA; 1–5 Vdc; 0 to -10 Vdc

Measurement boundaries

3300/55 Dual Velocity Monitor
The monitor family defines the processing architecture.

Range
Channel A 0–20 mm/s RMS; Channel B 0–20 mm/s RMS is the selected display and alarm basis.

Input
Velomitor, 100 mV/in/s is the required source configuration.

Outputs
Epoxy-sealed relay selection and the recorder or indication path must be assessed separately.

Use the complete code

A family number identifies the monitor function, but the remaining code groups determine the usable range and interfaces. Match the complete marking before changing a monitor, rear interface or field transducer.

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02 Signal path and selected options

Order-code selections

Selection	Configured choice
Measurement range	Channel A 0–20 mm/s RMS; Channel B 0–20 mm/s RMS
Input / processing	Velomitor, 100 mV/in/s
Alarm relay option	Epoxy-sealed
Safety-barrier option	None
Approval selection	None
Range multiplier	None

Range and input form one conversion

The selected range is meaningful only when the connected input system and sensitivity agree with the monitor configuration. A stable value is not proof of correct scaling; apply a controlled signal change and compare the expected and displayed response.

Interface review

Relay path Test contact logic and downstream wiring.	**Unbarriered path** Review the full loop before adding a barrier.
Approval boundary No agency-approval option is selected in this code.	**Base range** The stated range applies without multiplication.

Check one channel at a time

Identify the source, monitor channel, local indication, recorder destination and alarm path before applying a test. A one-channel-at-a-time sequence exposes crossed wiring without relying on labels alone.

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03 Measurement use and application limits

Common applications

Bearing-housing vibration
Monitor RMS casing velocity where rotor vibration is transmitted to the measurement point.

Two-channel machine protection
Apply identical RMS ranges to two identified locations while keeping the channels independent.

Filtered velocity monitoring
Select high-pass and low-pass corners for the useful machine response band.

Remote vibration recording
Send each proportional channel output to a compatible current or voltage receiver.

Technical evaluation sequence

01	Confirm the exact model and selected range.
02	Trace the intended transducer signal to its monitor input.
03	Apply a known change within the selected measurement span.
04	Compare local indication and the selected output path.
05	Restore the recorded settings and normal machine-protection state.

Acceptance observations

Configured item	Acceptance point
Channel A 0–20 mm/s RMS; Channel B 0–20 mm/s RMS	Check the active span and units.
Velomitor, 100 mV/in/s	Confirm source type, sensitivity and polarity.
Epoxy-sealed	Verify relay presence and contact behavior.
None	Confirm the corresponding field interface.
None	Include the multiplier state in setpoint calculations.

Application boundary

The transducer sensitivity, filter corners, RMS range, recorder scaling and alarm settings form one measurement chain. A stable display is not sufficient evidence of correct scaling; each channel should be checked with a controlled vibration or electrical test condition.

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04 Technical questions for this exact model

Questions 1–4

Which measurement span is selected for both channels of Bently Nevada 3300/55-01-04-18-18-00-00-05-00?
Channel A and Channel B each use a 0–20 mm/s RMS range. Recorder scaling and alarm thresholds should be checked against that RMS span.

Why must the 100 mV/in/s sensitivity be retained on Bently Nevada 3300/55-01-04-18-18-00-00-05-00?
The selected input is intended for a 100 mV/in/s Velomitor signal. A different sensitivity can produce a plausible indication with an incorrect vibration value.

How are filter corners applied in Bently Nevada 3300/55-01-04-18-18-00-00-05-00?
High-pass and low-pass corners are selected with plug-in jumpers. The chosen band must suit the machine response and remain consistent on both the local and recorder paths.

What does the RMS range change in Bently Nevada 3300/55-01-04-18-18-00-00-05-00 commissioning?
The applied test and receiving recorder must be compared with RMS velocity units rather than peak velocity or peak-to-peak displacement units.

Core configuration values

Item	Value
Measurement range	Channel A 0–20 mm/s RMS; Channel B 0–20 mm/s RMS
Input / processing	Velomitor, 100 mV/in/s
Alarm relay option	Epoxy-sealed
Safety-barrier option	None

Interpret answers as a complete path

Each answer applies to this exact order code. Compare the selected transducer, monitor scale and physical machine condition at the same stable test point instead of treating any single reading as sufficient evidence.

Retain channel identity

Record which field source, display, recorder destination and alarm circuit belong together before any conductor is moved.

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05 Output, replacement and release questions

Questions 5–8

Which alarm relay hardware is fitted to Bently Nevada 3300/55-01-04-18-18-00-00-05-00?
The selected relay option is epoxy-sealed. Its contact energization, Alert and Danger assignments and downstream wiring still require a functional test.

Does Bently Nevada 3300/55-01-04-18-18-00-00-05-00 include a safety barrier or range multiplier?
No. The order code selects an unbarriered input interface and the base displayed range without 2X or 3X multiplication.

Which recorder interfaces can be checked on Bently Nevada 3300/55-01-04-18-18-00-00-05-00?
The monitor supports individually scaled recorder outputs for 4–20 mA, 1–5 Vdc or 0 to -10 Vdc. The connected receiver must match the selected mode and load condition.

What acceptance test should complete installation of Bently Nevada 3300/55-01-04-18-18-00-00-05-00?
Apply a known condition to one channel at a time and compare the RMS display, buffered or recorder signal, Alert and Danger response, relay contacts and return to the normal state.

Related Bently Nevada product references

Bently Nevada 3300/55-01-04-12-12-00-00-05-00

Bently Nevada 3300/55-01-05-02-02-00-00-09-00

Replacement boundary

Related monitors and transducers may use different ranges, sensitivities, power requirements, barrier arrangements or relay hardware. Review their complete codes independently before using them as replacements.

Final technical record

Verify the 100 mV/in/s input sensitivity, 0–20 mm/s RMS spans, selected high-pass and low-pass corners, recorder mode, alarm setpoints, delays, reset behavior and epoxy-sealed relay contacts before returning both channels to service.