Bently Nevada 3300/26-XX-XX-XX-00-00-01-00

01 Product function and fixed configuration

Exact product role

Within a compatible 3300 monitoring rack, Bently Nevada 3300/26-XX-XX-XX-00-00-01-00 provides two independent RMS-conditioned vibration channels and uses the fixed 00-00-01-00 suffix for its approval, barrier, relay and trip-multiply selections.

Technical specification summary

Technical item	Specification
Measurement function	dual-channel absolute housing vibration
Signal conditioning	RMS
Channel count	2 independent channels
Accepted inputs	1 or 2 acceleration transducer signals
Unfiltered frequency response	2.7 Hz to 60 kHz, -3 dB nominal
Frequency range with integration	10 Hz to 60 kHz
Filter selection	more than 10,000 high-pass and low-pass combinations
Power consumption	3 W nominal, excluding accelerometers

Documented characteristics

Measures absolute housing or structural vibration with RMS signal conditioning.
3300/26 monitor characteristic

Provides two independent channels of continuous vibration monitoring.
3300/26 monitor characteristic

Supports field-selectable high-pass and low-pass filtering through plug-in jumpers.
3300/26 monitor characteristic

Uses the selected epoxy-sealed alarm relay hardware without trip multiplication.
3300/26 monitor characteristic

Configuration notice

Preserve the complete 3300/26-XX-XX-XX-00-00-01-00 marking when matching the installed unit, and base service decisions on the actual monitor hardware and rack configuration.

Bently Nevada 3300/26-XX-XX-XX-00-00-01-00

02 Signal processing and outputs

Processing and output data

Technical item	Specification
Recorder outputs	+4 to +20 mA; 0 to -10 Vdc; +1 to +5 Vdc
Alarm setpoint range	0 to 100% of full scale
Display	63-segment LCD per channel
SDI/DDI-compatible microprocessor	104044-03
Firmware upgrade kit	104535-05
Agency approval option	00 - none selected
Safety barrier option	00 - none
Alarm relay option	01 - epoxy-sealed
Trip multiply option	00 - none

Fixed 00-00-01-00 selections

Agency approval option 00 - none selected	**Internal safety barrier option** 00 - none
Alarm relay option 01 - epoxy-sealed	**Trip multiply option** 00 - none

Channel verification

Verify the two measurement channels independently. Compare each local indication with its recorder output and epoxy-sealed relay response under one controlled test condition.

Filter application

Choose high-pass and low-pass corners for the machine and transducer response, keep the corner frequencies at least two octaves apart, and confirm the final response with the installed signal path.

Bently Nevada 3300/26-XX-XX-XX-00-00-01-00

03 3300 system compatibility

Rack configuration context

3300 configuration	Compatibility point
Original system	Predates internal TDe and SDI/DDI data interfaces
Mixed system	Original rack with 3300/03-01; external data-interface use depends on compatible monitor firmware
SDI/DDI system	System Monitor, power supply, backplane and monitor firmware must be SDI/DDI-compatible
TDe system	Uses 3300/02 and interfaces directly to System 1 without an external communications processor

3300/26 compatibility identifiers

Compatible microprocessor 104044-03	**Firmware upgrade kit** 104535-05
Identification location Microprocessor on the monitor main circuit board	**Evaluation scope** System Monitor, backplane, power supply, communications processor and monitor firmware

Compatibility check

01	Identify the installed 3300 system configuration.
02	Confirm the communication processor or internal data-interface path.
03	Read the 3300/26 firmware part number.
04	Compare the firmware with the required SDI/DDI capability.
05	Complete the controlled response test before release.

System-level use

For SDI/DDI system compatibility, the 3300 System Compatibility Guide lists single-chip microprocessor part number 104044-03 for the 3300/26 and firmware upgrade kit 104535-05. Confirm the rack generation and installed firmware before connecting an SDI/DDI-compatible communication path.

Bently Nevada 3300/26-XX-XX-XX-00-00-01-00

04 Model-specific technical questions

Questions 1-4

What vibration quantity does Bently Nevada 3300/26-XX-XX-XX-00-00-01-00 process for each channel?
Bently Nevada 3300/26-XX-XX-XX-00-00-01-00 applies RMS signal conditioning to absolute machine-housing or structural vibration measured by its accelerometer input path.

How many independent online channels are provided by 3300/26-XX-XX-XX-00-00-01-00?
The monitor provides two independent channels, with separate display, recorder-output and alarm processing for the installed Channel A and Channel B configurations.

Which firmware part number supports SDI/DDI compatibility for Bently Nevada 3300/26-XX-XX-XX-00-00-01-00?
The 3300 System Compatibility Guide lists single-chip microprocessor part number 104044-03 as the SDI/DDI-compatible firmware for the 3300/26 monitor.

Which relay construction is selected for 3300/26-XX-XX-XX-00-00-01-00?
Option F=01 selects epoxy-sealed alarm relays, whose contact logic and downstream wiring should be tested independently from the measurement indication.

Fixed configuration reference

Position	Selection
Agency approval option	00 - none selected
Internal safety barrier option	00 - none
Alarm relay option	01 - epoxy-sealed
Trip multiply option	00 - none

Application areas

Machine Housing Vibration
Monitor RMS acceleration or integrated velocity at an established casing measurement point.

Supplemental Bearing-Housing Monitoring
Use housing response to supplement shaft-relative measurements when vibration is transmitted to the bearing housing.

Frequency-Band Monitoring
Apply field-selected high-pass and low-pass filtering to the machine and transducer frequency range.

Dual-Channel Protection Integration
Route two independent measurements to the configured display, recorder and alarm paths.

Bently Nevada 3300/26-XX-XX-XX-00-00-01-00

05 Precautions and related products

Release precautions

Step	Required check
1	Confirm the complete 3300/26-XX-XX-XX-00-00-01-00 marking before removing the installed monitor.
2	Identify the rack as Original, Mixed, SDI/DDI or TDe from the System Monitor, power supply and backplane before service.
3	Verify that the installed 3300/26 firmware is appropriate for the communication path; the SDI/DDI-compatible microprocessor is 104044-03.
4	Keep high-pass and low-pass corner frequencies at least two octaves apart.
5	Verify the unbarriered input path selected by E=00 before reconnecting field wiring.
6	Test the epoxy-sealed alarm relay contacts and downstream logic selected by F=01.
7	Confirm that no 2X or 3X trip multiplier is active for the G=00 configuration.
8	Prove both channel indications, recorder outputs and alarm responses before returning protection to service.

Related Bently Nevada products

Bently Nevada 3300/25-04-04-04-01-02-01-01

Bently Nevada 3300/65-13-01-00-00-00-00

Bently Nevada 3300/65-13-01-00-00-01-00

Bently Nevada 3300/16-02-01-00-00-00-00

Release criterion

Return the monitor to service only after both channel indications, recorder outputs, epoxy-sealed relay paths and the required communication path agree with the controlled rack configuration.