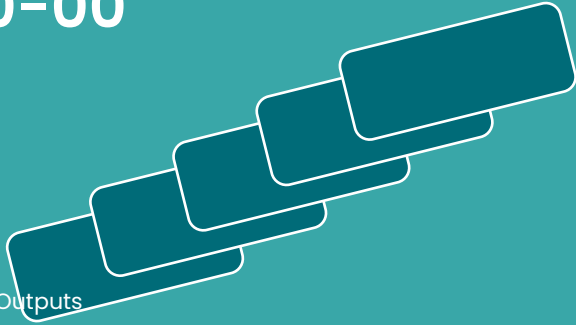


MANUFACTURER-SOURCE TECHNICAL REFERENCE

Bently Nevada 2300/20-00

Vibration Monitor Integration Guide

Bently Nevada Two-Channel Vibration Monitor with 4-20 mA Outputs



DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited Bently Nevada manufacturer sources. No product photograph is included.

Product / lookup identity	Bently Nevada 2300/20-00
Reference number	2300/20-00
Document basis	Published Bently Nevada product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/Bently-Nevada/2300-20-00>
Apter Power contact

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Sensor-to-monitor protection path

Bently Nevada 2300/20-00 is the no-agency-approval version of the 2300/20 compact vibration monitor, a two-channel device for continuous condition monitoring and machinery protection on essential medium- to low-criticality and spared equipment. The monitor accepts two synchronously sampled acceleration, velocity or proximity-transducer inputs plus a dedicated speed channel that can use a proximity probe, magnetic pickup or proximity switch.

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|----|---|
| 01 | The monitor accepts two synchronously sampled acceleration, velocity or proximity-transducer inputs plus a dedicated speed channel that can use a proximity probe, magnetic pickup or proximity switch. All three input channels can instead support process variables, and configured measurements include acceleration peak/RMS, velocity peak/RMS, displacement peak-to-peak/RMS and speed with alert and danger alarming. |
| 02 | For plant integration, 2300/20-00 provides two internally powered 4-20 mA outputs, two programmable dry-contact relay outputs, three protected BNC buffered outputs for the two vibration signals and speed/Keyphasor signal, and 10/100Base-T Ethernet with Modbus over Ethernet. Companion hardware can include Bently Nevada accelerometers, Velomitor or Proximitor systems, a compatible speed sensor, a 24 VDC DIN-rail supply, an enclosure and optional System 1 device connectivity, all selected separately for the installation. |
| 03 | The 2300 platform is applied where a broad machine train or individual casing can be covered by its channel count: proximity sensing on fluid-film-bearing machines, velocity sensing on slow-speed assets, acceleration and enveloped-acceleration measurements on rolling-element bearings or geared equipment, and compact protection on examples such as cryogenic pumps and small hydro units. Baker Hughes lists oil and gas, power generation, water treatment, pulp and paper, manufacturing, mining and cement among the applicable industries; the -00 approval code confines this exact order to locations that do not require the omitted agency approvals. |

Sensors, outputs, and approval boundaries

- | | |
|----|---|
| 01 | Status: VERIFIED |
| 02 | Lifecycle evidence: The 2300 family appears on the current Baker Hughes/Bently Nevada distributed-protection page and has a Rev. AD datasheet carrying a 2025 copyright and current ordering information. |
| 03 | Country Of Origin was not published for this exact item in the cited official sources. |

Monitor integration checks

01	Treat 2300/20-00 as the approvals-option-00 unit: do not claim or rely on ATEX, IECEx or CSA explosive-atmosphere approval, and do not assume an approved enclosure changes the monitor certification.
02	Supply only 18 to 36 VDC within the 7.5 W maximum requirement, use the documented grounding and enclosure practice, and keep the unit within -30 to +65 °C and non-condensing humidity limits.
03	Connect the two 4-20 mA channels only as internally powered loops; the manufacturer warns that they will not work with an external powered loop, and the connected load must remain within 0 to 600 ohms.
04	Before service, verify each sensor type, excitation, wiring, scale factor, bandpass, speed range, alert/danger setpoint, relay logic and bypass state, then perform the site's required functional test.
05	Use the official operation, field-wiring, software and installation documents for the installed firmware; control configuration access, apply compatible BN Monitor Configuration/System 1 versions, and keep copper Ethernet runs within the 100 m published limit.

Identity and release controls

Status	VERIFIED
Official Ordering Pattern	2300/20-AA
Code Decoding	[{'code': '2300/20', 'meaning': 'Monitor with two configurable 4-20 mA outputs'}, {'code': '00', 'meaning': 'Approvals option: None'}]
Standard Order Contents	['2300/20 monitor', 'DIN-rail mount assembly', 'Manual', 'Bently Nevada monitor configuration software']

Official Bently Nevada sources

2300/20 and 2300/25 2300 Vibration Monitors Datasheet	https://dam.bakerhughes.com/m/2d9d8ca049d0e898/original/2300-Series-Vibration-Monitors-Datasheet-105M0340-pdf.pdf
Distributed Sensor and Protection Systems	https://www.bakerhughes.com/bently-nevada/monitoring-systems/distributed-protection-systems
2300 Vibration Monitor Fact Sheet	https://dam.bakerhughes.com/m/73b2b3d8ebc3ae2f/original/2300-Vibration-Monitor-Fact-Sheet-GEA31447-pdf.pdf
New Capabilities in 2300 Vibration Monitors	https://www.bakerhughes.com/bently-nevada/orbit-home/orbit-article/new-capabilities-2300-vibration-monitors
Application Guide for the Condition Monitoring of Cryogenic Pumps	https://www.bakerhughes.com/sites/bakerhughes/files/2022-01/GEA32338B%20Cryogenic%20Pumps%20Ap%20Guide_R1.pdf
Roadmap to Digital Transformation of Hydro Condition Monitoring	https://www.bakerhughes.com/bently-nevada/orbit-home/orbit-article/roadmap-digital-transformation-hydro-condition-monitoring