2300 Vibration Monitors

Product Datasheet
Bently Nevada* Asset Condition Monitoring

Description

The 2300 Vibration Monitors provide cost-effective continuous vibration monitoring and protection capabilities for less critical and spared machinery. They are specifically designed to continuously monitor and protect essential medium to low criticality machinery in a wide range of industries including: oil & gas, power generation, water treatment, pulp and paper, manufacturing, mining, cement, and other industries.

The 2300 Vibration Monitors deliver vibration monitoring and high vibration level alarming. They include two channels of seismic or proximity measurement inputs from various accelerometer, Velomitor and Proximitor types, a speed input channel for time-synchronous measurements, and outputs for relay contacts. The 2300/20 monitor features a configurable 4-20 mA output which interfaces more points to a DCS. The 2300/25 monitor features System 1* connectivity for Trendmaster SPA interface which enables users to leverage existing DSM SPA infrastructure.

The 2300 Vibration Monitors are designed for use on a broad range of machine trains or individual casings where the sensor point count fits the monitor’s channel count and where advanced signal processing is desired.
Monitor Key Features

2300/20

- Two 4-20mA outputs with internal current loop power supply.
- Continuous monitoring and protection
- Two acceleration/velocity/proximity inputs with synchronized sampling for advanced diagnostics.
- One dedicated speed channel supporting Proximity probes, Magnetic pickup and Proximity switch type sensors.
- Supports process variable on all three input channels.
- Key measurements (Acceleration pk, Acceleration rms, Acceleration pk/rms, Velocity pk, Velocity rms, Displacement pp, Displacement rms, Speed) real-time provided with alarm configuration.
- Each channel has one measurement group and two bandpass measurements.
- LCD and LED for real time value and status display.
- Ethernet 10/100 Base-T communication for configuration using Bently Nevada Monitor Configuration software (included) with RSA encryption.
- Local contacts for positive engagement of channel bypass, configuration lockout, and reset.
- Two relay outputs with programmable setpoints.
- Three buffered transducer outputs (including Keyphasor signal) providing short circuit and EMI protection. Buffered outputs for each signal are through BNC connectors.
- Modbus® over Ethernet.

⚠️ CAUTION: Two 4-20 mA outputs will NOT work with external powered loop.

2300/25

- Trendmaster SPA interface.
- Continuous monitoring and protection.
- Two Acceleration/Velocity/Proximity inputs with synchronized sampling for advanced diagnostics.
- One dedicated speed channel supporting Proximity probes, Magnetic pickup and Proximity switch type sensor.
- Support process variable on all three input channels.
- Key measurements (Acceleration pk, Acceleration rms, Acceleration pk/rms, Velocity pk, Velocity rms, Displacement pp, Displacement rms, Speed) real-time provided with alarm configuration.

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- Modbus® over Ethernet.
## Specifications

### INPUTS

<table>
<thead>
<tr>
<th>POWER INPUT</th>
<th>DC Input</th>
<th>18–36VDC, max 7.5W</th>
</tr>
</thead>
</table>

### CHANNEL TYPES

#### ICP Accelerometers

<table>
<thead>
<tr>
<th>Configurable Bandpass filter</th>
<th>0.2 Hz to 20 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale Factor range</td>
<td>5 to 1000 mV/g</td>
</tr>
<tr>
<td>Full scale range</td>
<td>2 to 80 g peak</td>
</tr>
<tr>
<td>Current Sink Source</td>
<td>3.3 mA ± 5%</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>-21 to -24 VDC</td>
</tr>
</tbody>
</table>

#### Velocity

<table>
<thead>
<tr>
<th>Configurable Bandpass filter</th>
<th>0.2 Hz to 20 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale Factor range</td>
<td>5 to 1000 mV/in/s</td>
</tr>
<tr>
<td>Full scale range</td>
<td>0 to 50 in/s peak</td>
</tr>
</tbody>
</table>

#### Radial Vibration

<table>
<thead>
<tr>
<th>Configurable Bandpass filter</th>
<th>0.2 Hz to 20 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale Factor range</td>
<td>5 to 1000 mW/mil</td>
</tr>
<tr>
<td>Full scale range</td>
<td>0 to 160 mil peak-peak</td>
</tr>
</tbody>
</table>

#### Thrust Channel

| Scale Factor range            | 5 to 1000 mW/mil |

#### Process Variable Channel

Support most of unit with default on Temperature

#### Channel Hardware Specification

| Configurable Upper OK limit   | -0.25 to -22 V (greater than lower OK) |
| Configurable Lower OK limit   | -0.25 to -22 V (less than upper OK)   |

Accuracy: ±1% of full scale range

Independent 24-bit ADCs on input channels
Supports Bently transducer or 2/3 wires custom transducer for Accelerometers, Velomitor and Proximitor.

### Speed/Keyphasor

Keyphasor transducers support multiple events per revolution and event ratios for speed inputs up to 20 kHz.

| Threshold voltage resolution | 0.1VDC |

#### Proximity Transducer Interface

| Supply Voltage               | -22.8 to -25.2 VDC |
| Maximum Rated Current       | 15 mA              |
| Short Circuit Current       | 15.1 mA to 23.6 mA |
| Accuracy                    | ±1% of full scale range |
| Input Impedance             | 3-wire Voltage Mode, 10 kΩ |
| Rpm range                   | 1 to 120,000       |

#### Proximity Switch Interface

| Supply Voltage               | -10 to -24 VDC |
| Lower Not Ok limit           | -2.75 ±0.05 V  |
| Rpm range                    | 1 to 60,000    |

#### Magnetic Pick up

| Input voltage                | up to ±125V (250Vp-p) |
| Rpm range                    | 200 to 120,000       |

#### Contact Inputs

Monitor provides 3 contact capabilities with input terminals

| Configuration lock          |
| Latched alarm/relay reset function |
| Monitor Alarm/Relay Inhibit |

| Activate            | 0 to 10 kΩ |
| De-activate         | 150 kΩ to infinite |

#### Button Inputs

External button to reset latched alarm and relay

<table>
<thead>
<tr>
<th>One buried button provides 3 functions</th>
</tr>
</thead>
</table>

- Display monitor information
- LCD contrast adjustment
- Reset settings to default

#### Display Monitor Information

Reset listed settings to Default

| User account name |
| IP Address |
| FW/HW version |

#### Jumper between COM & Chassis GND

Jumpers are 2-pin terminal interfaces that connects COM to the Chassis ground (GND).

Alternatively, COM can be connected to an earth ground separately through a terminal.
OUTPUTS

Buffered Output

Three buffered outputs are available on the monitor through BNC connectors:

- 2 Vibration Outputs
- 1 Speed Output

Relay

Relays provide two dry-contact outputs:

- May be normally energized or de-energized
- No output feedback determination

Relay circuit specification in Non-Hazardous area:

<table>
<thead>
<tr>
<th>Type</th>
<th>Single pole, double throw</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealing</td>
<td>Epoxy sealed</td>
</tr>
<tr>
<td>Contact life</td>
<td>100,000 cycles @ 5 amps</td>
</tr>
<tr>
<td></td>
<td>250 VAC</td>
</tr>
<tr>
<td></td>
<td>200,000 @ 1 amp, 24 VDC</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>1000 MΩ minimum @ 500 VDC</td>
</tr>
<tr>
<td>Relay closed contact resistance</td>
<td>1 Ω maximum</td>
</tr>
<tr>
<td>Relay open contact resistance</td>
<td>1 MΩ minimum</td>
</tr>
<tr>
<td>Maximum switched contact voltage</td>
<td>250V AC / 250V DC</td>
</tr>
<tr>
<td>Maximum breaking contact current</td>
<td>6A @250VAC / 6A @24VDC</td>
</tr>
<tr>
<td>Maximum switched power</td>
<td>1500VA AC / 150 Watts DC</td>
</tr>
</tbody>
</table>

Relay circuit specification in Hazardous area:

| Maximum switched contact voltage and current | 6A @24VAC / 5A @30VAC / 5.8A @24VDC / 4A @30VDC |

4-20mA Output (2300/20)

Two 4-20mA outputs with internal current loop power supply:

- 4 to 20mA output values are proportional to the full-scale of the associated measurement.

Software configuration may determine the variable of each output:

- Voltage compliance: 0 to +12Vdc range across load
- Load resistance: 0 to 600Ω
- Resolution: 0.3662uA

Input signal range

- High AC: 8Vpp
- Low AC: 1.6Vpp
- DC GAP: 0 to -20Vdc (max measurable AC signal is 1Vpp)

Accuracy

- High/Low AC: ±1% of Full-Scale at 100Hz
- DC GAP: ±0.5V (measurable AC accuracy: ±20mV)

Frequency response

- 10Hz to 3000Hz ±5%

LEDs

- OK: Indicates when the monitor is operating properly.
- Protection fault: Indicates hardware fault that is impacting alarm determination.
- User inhibit: Indicates the alarm/relays have been intentionally inhibited from operation.
- Bypass: Indicates user initiated bypass action.
- Relay status: Indicates if relays have been activated.
- TX/RX: Indicates the Ethernet status and monitor communicating with remote software.
- SPEED/AUX channel status: Indicates the speed channel has valid speed signal input OR operating correctly when AUX.
- Channel Alarm Status
  - Alert LED: engages if any channel is in alert state.
  - Danger LED: engages if any channel is in danger state.

Accuracy: 1% over operating temperature range
Update rate: 100ms

Configurable with default 2mA clamp current
No output feedback determination

⚠️ CAUTION: Two 4-20 mA outputs will NOT work with external powered loop.
LCD Display
Allows viewing machine speed, vibration measurements value, setpoints, and configuration information.

COMMUNICATIONS
Ethernet
Ethernet, 10Base-T and 100Base-TX. Conforms to IEEE802.3
RJ-45 for 10Base-T/100Base-TX Ethernet cabling
Cable length: 100 meters (328 ft.) maximum

ENVIROMENTAL LIMITS
Operating Temperature
-30 °C to +65 °C
(-22 °F to +149 °F)

Storage Temperature
-40 °C to +85 °C
(-40 °F to +185 °F)

Humidity
Up to 95%, non-condensing

Vibration Limitation
3g

Battery Life for Real Time Clock
Powered: 38 years @ 50°C (122 °F)
Un-powered: 12 years @ 50°C (122 °F)

COMPLIANCE AND CERTIFICATIONS
General and Electrical Safety

UL Std. No. 61010 (3rd Edition)
CAN/CSA C22.2 No. 61010-1-12

2014/35/EU Low Voltage
EN61010-1: 2010

European Community Directives
LV Directive 2014/35/EU

EMC
EN61000-6-2 Immunity for Industrial Environments
EN61000-6-4 Emissions for Industrial Environments
EN61326-1 Electrical equipment for measurement, control and laboratory use - EMC requirements

HAZARDOUS AREA APPROVAL
For a detailed listing of country and product specific approvals, refer to the Approvals Quick Reference Guide (document 108M1756) located at the following website: www.GEmeasurement.com

CSA/NRTL/C
Class I, Division 2/Zone 2
AEx nA nC [ic] IIC T4 Gc
Class I, Division 2, Groups A,B,C & D; T4

ATEX/IECEx

2300/20

Ex nA nC [ic] IIC T4 Gc
T4@ -30°C < Ta < 65°C (-22°F < +149°F)

2300/25

Ex nA nC [ic] IIC T4 Gc
T4@ -30°C < Ta < 65°C (-22°F < +149°F)

Intrinsic Safety Parameters

Proximitor Transducer
Uo: 24V; Io: 46mA; Co: 200nF; Lo: 1mH

Accelerometer Transducer
Uo: 24V; Io: 3.3mA; Co: 200nF; Lo: 1mH

SPA POWER (2300/25 Only)
Ui=15V; li=150mA;
Pi=560mW; Ci=0; Li=0

SPA SIGNAL (2300/25 Only)
Ui=12V; li=12mA; Pi=36mW;
Ci=0; Li=0

PHYSICAL

Dimensions (Width x Depth x Height)
177mm x 127mm x 76.2mm
(5in x 5in x 3in)

Weight
1.03kg (2.26lbs)

Mounting
Panel mount or DIN rail (adapter included)
Ordering Information


2300 Series Vibration Monitor

2300/20-AA: Monitor with 4-20ma Outputs
(including DIN rail mount assembly, manual and monitor configuration software)

AA: Approvals Option

00 None
02 Multiple Explosive Atmosphere Certifications (ATEX/IECEx/CSA)

2300/25-AA: Monitor with SPA Outputs
(including DIN rail mount assembly, manual and monitor configuration software)

AA: Approvals Option

00 None
02 Multiple Explosive Atmosphere Certifications (ATEX/IECEx/CSA)

2300/20_KIT-AAA-BB: Bently Nevada 2300/20 Condition Monitoring System Kit

AAA: Configuration

001 2 Sensors and 1 Housing

1 - 2300/20 Monitor
1 - 6 ft. (1.8 m) shielded Ethernet cable
1 - Housing Kit: 105M6193-01 (fiberglass housing for nonhazardous area) or 105M6193-02 (stainless steel housing for hazardous area) 12 x 14 in.
2 - Accelerometer sensors (200350)
2 - 17 ft. (5.2 m) cables (9571)

(Excluding Keyphasor sensor and 24 VDC power supply 1)

002 1 Sensor and 1 Housing

1 - 2300/20 or 2300/25 Monitor
1 - 6 ft. (1.8 m) shielded Ethernet cable
1 - Housing Kit: 105M6193-01 (fiberglass housing for nonhazardous area) or 105M6193-02 (stainless steel housing for hazardous area) 12 x 14 in.
1 - Accelerometer sensor (200350)
1 - 17 ft. (5.2 m) cable (9571)

(Excluding Keyphasor sensor and 24VDC power supply1)

003 2 Sensors

1 - 2300/20 Monitor
1 - 6 ft. (1.8 m) shielded Ethernet cable
2 - Accelerometer sensors (200350)
2 - 12 ft. (3.6m) cables (9571)

(Excluding Keyphasor sensor and 24VDC power supply1)

004 2 Velomitors and 1 Housing

1 - 2300/20 Monitor
1 - 6 ft. (1.8 m) shielded Ethernet cable
1 - Housing Kit: 105M6193-01 (fiberglass housing for nonhazardous area) or 105M6193-02 (stainless steel housing for hazardous area) 12 x 14 in.
2 - Velomitor sensors (330500)
2 - 17 ft. (5.2 m) cable (9571)

(Excluding Keyphasor sensor and 24VDC power supply1)

005 1 Velomitor and 1 Housing

1 - 2300/20 Monitor
1 - 6 ft. (1.8 m) shielded Ethernet cable
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(Excluding Keyphasor sensor and 24 VDC power supply)

BB: Approvals Option

00 None
02 Multiple Explosive Atmosphere Certifications (ATEX/IECE/CSA

2300/25_KIT-AAA-BB: Bently Nevada 2300/25 Condition Monitoring System Kit

004 2 Velomitors and 1 Housing
1 - 2300/25 Monitor
1 - 6 ft. (1.8 m) shielded Ethernet cable
1 - Housing Kit: 105M6193-01 (fiberglass housing for nonhazardous area) or 105M6193-02 (stainless steel housing for hazardous area) 12 x 14 in.
2 - Velomitor sensors (330500)
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(Excluding Keyphasor sensor and 24 VDC power supply)

005 1 Velomitor and 1 Housing
1 - 2300/25 Monitor
1 - 6 ft. (1.8 m) shielded Ethernet cable
1 - Housing Kit: 105M6193-01 (fiberglass housing for nonhazardous area) or 105M6193-02 (stainless steel housing for hazardous area) 12 x 14 in.
1 - Velomitor sensor (330500)
1 - 17 ft. (5.2 m) cable (9571)

(Excluding Keyphasor sensor and 24 VDC power supply)

006 2 Velomitors
1 - 2300/25 Monitor
1 - 6 ft. (1.8 m) shielded Ethernet cable
2 - Velomitor sensors (330500)
2 - 12 ft. (3.6 m) cable (9571)

(Excluding Keyphasor sensor and 24 VDC power supply)
BB: Approvals Option

00 None
02 Multiple Explosive Atmosphere Certifications (ATEX/IECEx/CSA)

System 1:

2300/20 can interface to System 1 V16.2 or higher for expanded condition monitoring and analysis. System 1 software and the 2300 device connectivity (P/N 3071/13) are sold separately. Refer to document 108M5214 for System 1 detailed information.

3071/13-AA-BB: System 1 2300 Series Device Import

AA: Not available for 2300 monitor
00

BB: Quantity of 2300 Monitoring Systems

## - Numeric [1->n]

Provided are 3 kinds of power supplies with different temperature and power ranges. Verify Accessories below for the details.

Accessories

106M7607-01 Power supply for DIN rail mounting, 100/240AC to 24DC/1.5ACertifications (ATEX) (-25°C ~ 70°C, 35*99*95 mm) (One power can drive max 4 monitors)

110M7102-01 Power supply for DIN rail mounting, 100/240AC to 24DC/1.3ACertifications (CIM2 by UL) (-25°C ~ 70°C, 22.5*99*107 mm) (One power can drive max 4 monitors.)

106M6694-01 Power supply for DIN rail mounting, 110/220AC to 24VDC/5ACertifications (ATEX, IECEx, CID2 by UL) (-40°C ~ 70°C, 40*130*125 mm) (One power can drive max 10 monitors.)

105M6193-02 Stainless Steel Housing for 2300 KIT (can be used in hazardous area)

105M6193-01 Fiberglass NEMA 4X/IP66 weatherproof housing with window in door (includes mounting plate for monitor)

Dimensions:
Width: 338.3 mm (13.3 in)
Height: 389.1 mm (15.3 in)
Depth: 209.8 mm (8.2 in)

(used in nonhazardous area)
105M6193-01 Weatherproof Housing

AM3100T2-Z2 Accelerometer Sensor

200350 Accelerometer Sensor
330400/330425 Accelerometer Sensor

330500 Velomitor

330505 Velomitor

190501 Velomitor
100M0741 Proximity Switch

284947 Magnetic Pickup

Proximity Transducer System

Refer to proximity transducer system datasheet for details.

- 172036 3300 5mm
- 141194-01 3300XL 8mm
- 146256-01 3300XL 11mm
- 147385-01 3300XL NSV

02120015 Bulk Cable from Proximity sensor to monitor (500 ft.)

9571-AA* Low cost cable for accelerometer

AA: From “02” to “99” Increments of 1.0 foot

<table>
<thead>
<tr>
<th>INCREMENTS OF 1.0 FOOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXAMPLE: 1 2 = 12 FEET</td>
</tr>
<tr>
<td>2 5 = 25 FEET</td>
</tr>
<tr>
<td>MIN LENGTH = 2.0 FEET</td>
</tr>
<tr>
<td>MAX LENGTH = 99 FEET</td>
</tr>
</tbody>
</table>

84661-AA* Armored cable for 2 -wire transducer

CB2W100-AAA Cable for 2 -wire transducer

**Note:** The CB2W100 cable is not recommended for use with the 200350 Accelerometer. The O-ring will not form a proper seal with the accelerometer.

AAA:

- 0 1 5 15 ft. (4.8 m)
- 0 3 2 32 ft. (9.8 m)
- 0 6 4 64 ft. (19.5 m)
- 1 1 2 112 ft. (34.1 m)
- 1 2 5 125 ft. (38.1 m)
- 1 5 0 150 ft. (45.7 m)
- 2 0 0 200 ft. (61.0 m)
- 2 5 0 250 ft. (76.2 m)

Splash Proof Cable for 2-wire transducer

9571 Mod : 285031-AA* Cable for 2-wire extension with Splash Proof Connection. This cable assembly provides an equivalent IP66 level of protection.

**Note:** For Proximitor 3300-NSV and Accelerometer 330400 need metal conduit for conducted RF performance.

**Note:** Cable lengths greater than 30 meters (100 feet) will experience some attenuation of amplitudes at higher frequencies when using the AM3100T2-Z2 Accelerometer.
### Accessories

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02120015</td>
<td>Bulk Cable from Proximity sensor to monitor (500 ft.)</td>
</tr>
<tr>
<td>9571-AA*</td>
<td>Low cost cable for 2-wire transducer</td>
</tr>
</tbody>
</table>

### Ethernet Cables

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>138131-AAA</td>
<td>Standard 10 Base-T/100 Base-TX Shielded Category 5 Cable with RJ-45 connectors (solid conductor)</td>
</tr>
</tbody>
</table>

### AAA: Cable Length

<table>
<thead>
<tr>
<th>AAA Code</th>
<th>Length (ft) (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>006</td>
<td>6 (1.8)</td>
</tr>
<tr>
<td>010</td>
<td>10 (3.0)</td>
</tr>
<tr>
<td>025</td>
<td>25 (7.6)</td>
</tr>
<tr>
<td>040</td>
<td>40 (12.2)</td>
</tr>
<tr>
<td>050</td>
<td>50 (15.2)</td>
</tr>
<tr>
<td>075</td>
<td>75 (22.9)</td>
</tr>
<tr>
<td>085</td>
<td>85 (25.9)</td>
</tr>
<tr>
<td>100</td>
<td>100 (30.5)</td>
</tr>
</tbody>
</table>

### Spares

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>105M6203-01</td>
<td>35mm DIN rail mount and screws (included with 2300/20 monitoring system)</td>
</tr>
<tr>
<td>106M3210</td>
<td>10-pin 4-20mA output connector</td>
</tr>
<tr>
<td>106M2223</td>
<td>5-pin contact input connector (Alarm Reset)</td>
</tr>
<tr>
<td>106M3408</td>
<td>5-pin contact input connector (Alarm Inhibit/Config lock)</td>
</tr>
<tr>
<td>106M3211</td>
<td>16-pin transducer input connector</td>
</tr>
<tr>
<td>106M3212</td>
<td>6-pin relay output connector</td>
</tr>
<tr>
<td>106M2231</td>
<td>3-pin power input connector</td>
</tr>
</tbody>
</table>

### Additional Information

- 2300 Series Operation and Maintenance Manual (Document 105M0341)
- 2300 Field Wiring Diagram (Document 106M5801)
- 2300 Series Software Guide (Document 107M7626)
- 2300 Series Monitor Installation Guide (Document 121M3029)

Graphs and Figures

2300 Series Monitor Recommended Clearance
Wiring Diagram

Note: 2300/20 and 2300/25 use the same interface connector for recorder output or SPA output.
Note: 2300/20 and 2300/25 use the same interface connector for recorder output or SPA output.