

2300 Series Vibration Monitors

Datasheet

Bently Nevada Machinery 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.



Baker Hughes 

Bently Nevada

Your distributor / Votre distributeur
FRANCE +33 (0) 650 590 965
CAMEROUN +237 6 52 12 70 95



@sales: ventes@fr-eps.com
@logistics: logistique@fr-eps.com
www.fr-eps.com

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.
- 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.
 - Each channel has one measurement group and two bandpass measurements.
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 - 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 an external powered loop.

2300/25

- Trendmaster SPA interface.
- Continuous monitoring and protection.
- Two Acceleration/Velocity/Proximity inputs with synchronized sampling for advanced diagnostics.

Specifications

Inputs

Power Input	
DC Input	18~36VDC, max 7.5W
Channel Types	
ICP Accelerometers	
Configurable Bandpass filter	0.2 Hz to 20 kHz
Scale Factor range	5 to 1000 mV/g
Full scale range	2 to 80 g peak
Current Sink Source	3.3 mA ± 5%
Open Circuit Voltage	-21 to -24 VDC
Velocity	
Configurable Bandpass filter	0.2 Hz to 20 kHz
Scale Factor range	5 to 1000 mV/in/s
Full scale range	0 to 50 in/s peak
Radial Vibration	
Configurable Bandpass filter	0.2 Hz to 20 kHz
Scale Factor range	5 to 1000 mV/mil
Full scale range	0 to 160 mil peak-peak
Thrust Channel	
Scale Factor range	5 to 1000 mV/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	6 to 120,000

Proximity Switch Interface	
Supply Voltage	-10 to -24 VDC
Lower Not Ok limit	-2.75 ±0.05 V
Rpm range	6 to 60,000

Magnetic Pick up	
Input voltage	Adapt to sensor 284947 output
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	
One buried button provides 3 functions	<ul style="list-style-type: none"> • Display monitor information • LCD contrast adjustment • Reset settings to default

Display Monitor Information	
Reset listed settings to Default	<ul style="list-style-type: none"> • 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
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Relays

Relays provide two dry-contact outputs	May be normally energized or de-energized No output feedback determination
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Relay Circuit Specification in Non-Hazardous Area

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

Relay Circuit Specification in Hazardous Area

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

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

Configurable with default 2mA clamp current.

No output feedback determination.



Two 4-20 mA outputs will **NOT** work with an external powered loop.

SPA Output (2300/25)

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	Indicates the speed channel has valid speed signal input OR operating

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status	correctly when AUX.
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Channel Alarm Status

Alert LED	Engages if any channel is in alert state.
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Danger LED	Engages if any channel is in danger state.
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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
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Environmental Limits

Operating Temperature	-30 °C to +65 °C (-22 °F to +149 °F)
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Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
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Humidity	Up to 95%, non-condensing
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Vibration Limitation	3g
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Battery Life for Real Time Clock	Powered: 38 years @ 50°C (122 °F) Un-powered: 12 years @ 50°C (122 °F)
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Physical

Dimensions (Width x Depth x Height)	127mm x 127mm x 76.2mm (5in x 5in x 3in)
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Weight	1.03kg (2.26lbs)
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Mounting	Panel mount or DIN rail (adapter included)
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Compliance and Certifications

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

EMC

EN 61000-6-2 : 2005

EN 61000-6-4: 2007 +A1

EN 61326-1: 2013

EN 61326-2-3: 2013

EMC Directive 2014/30/EU

Electrical Safety

EN 61010-1: 2010

LV Directive 2014/35/EU

ATEX

EN 60079-0: 2012/A11:2013

EN 60079-11: 2012

EN60079-15: 2010


EN60079-7: 2015

ATEX Directive 2014/34/EU

RoHS

RoHS Directive 2011/65/EU

Hazardous Area Approvals

 For the detailed listing of country and product specific approvals, refer to the *Approvals Quick Reference Guide* (108M1756) available from www.Bently.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,
and D; T4

ATEX/IECEX

2300/20



II 3 G
Ex na nC [ic] IIC T4 Gc
Ex ec nC [ic] IIC T4 Gc

T4 @ Ta = -30°C to +65°C

2300/25



II 3 G
Ex na nC ic [ic] IIC T4 Gc
Ex ec nC ic [ic] IIC T4 Gc

T4 @ Ta = -30°C to +65°C

Ordering Information



For a detailed listing of country- and product-specific approvals, refer to the *Approvals Quick Reference Guide* (document 108M1756), at Bently.com.

2300 Series Vibration Monitor

2300/20-AA: Monitor with 4-20ma Outputs

(including DIN rail mount assembly, manual and monitor configuration software)

A: 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)

A: 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



¹ Provided are 3 kinds of power supplies with different temperature and power ranges. Verify the necessary details in the Accessories section to follow.

A: Configuration

001	2 Sensors and 1 Housing <ul style="list-style-type: none"> 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)
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	<ul style="list-style-type: none"> (Excluding Keyphasor sensor and 24 VDC power supply¹)
002	1 Sensor and 1 Housing <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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. 1 - Velomitor sensor (330500) 1 - 17 ft. (5.2 m) cable (9571) (Excluding Keyphasor sensor and 24VDC power supply¹)
006	2 Velomitors <ul style="list-style-type: none"> 1 - 2300/20 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 24VDC power supply¹)
B: Approvals Options	
00	None
02	Multiple Explosive Atmosphere Certifications (ATEX/IECEX/CSA)

2300/25_KIT-AAA-BB

Bently Nevada 2300/25 Condition Monitoring System Kit


A: Configuration

001	2 Sensors and 1 Housing <ul style="list-style-type: none"> 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 - Accelerometer sensors (200350) 2 - 17 ft. (5.2 m) cables (9571) (Excluding Keyphasor sensor and 24 VDC power supply 1)
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005	1 Velomitor and 1 Housing <ul style="list-style-type: none"> 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)

	<ul style="list-style-type: none"> (Excluding Keyphasor sensor and 24VDC power supply1)
006	2 Velomitors <ul style="list-style-type: none"> 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 24VDC power supply1)

B: Approvals Option

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

¹ Provided are 3 kinds of power supplies with different temperature and power ranges. Verify the necessary details in the Accessories section to follow.

System 1 Software

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

A: Not available for 2300 monitor	
00	
B: Quantity of 2300 Monitoring Systems	
##	Numeric [1->n]

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 (CID2 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)
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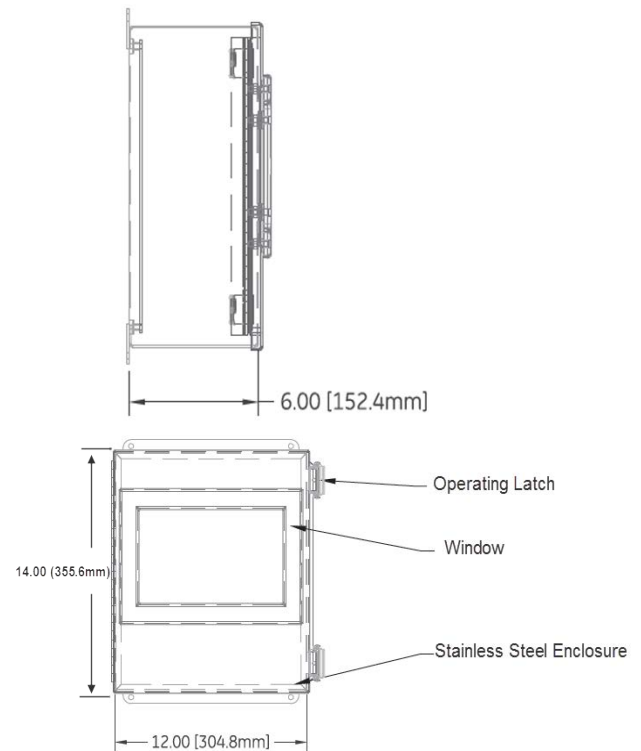


Figure 1: 105M6193-02 Weatherproof Housing

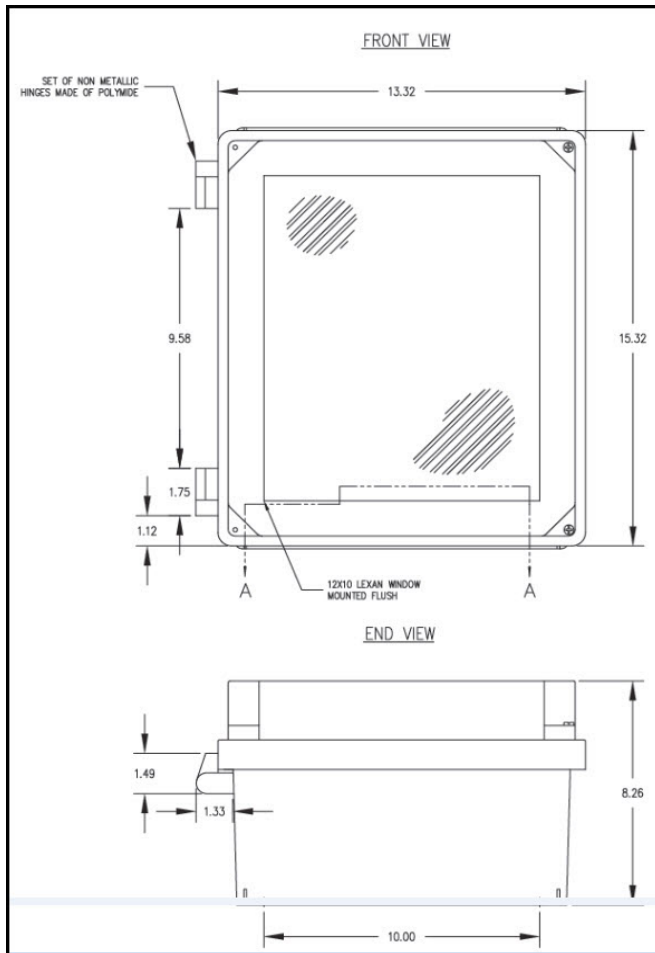


Figure 2: 105M6193-01 Weatherproof Housing

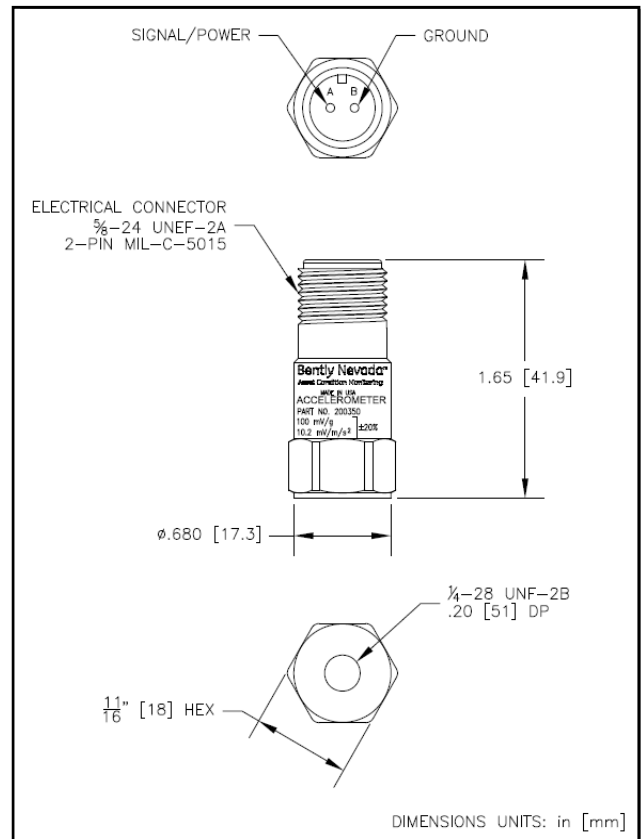


Figure 3: 200350 Accelerometer Sensor

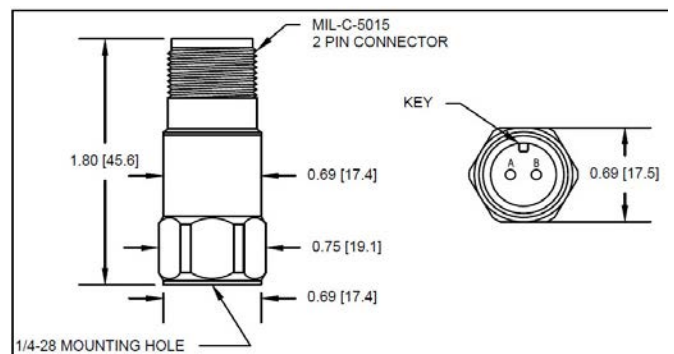


Figure 4: AM3100T2-Z2 Accelerometer Sensor

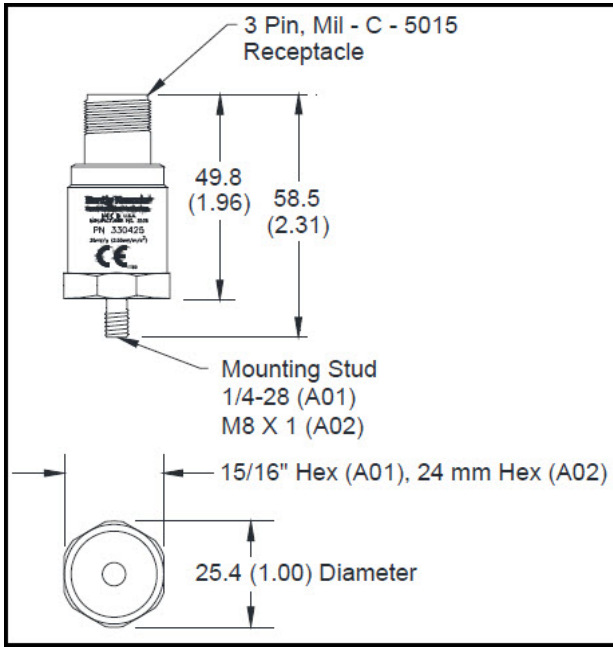


Figure 5: 330400/330425 Accelerometer Sensor

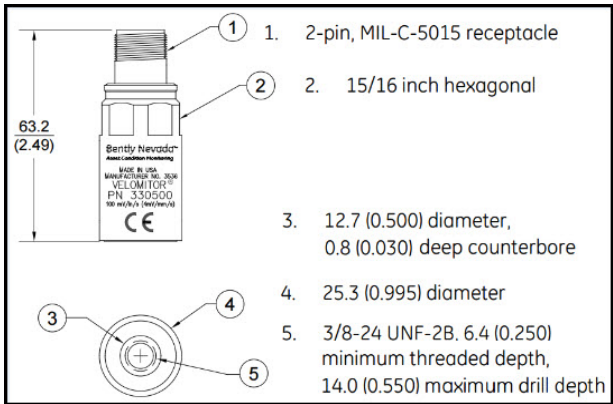


Figure 6: 330500 Velomitor

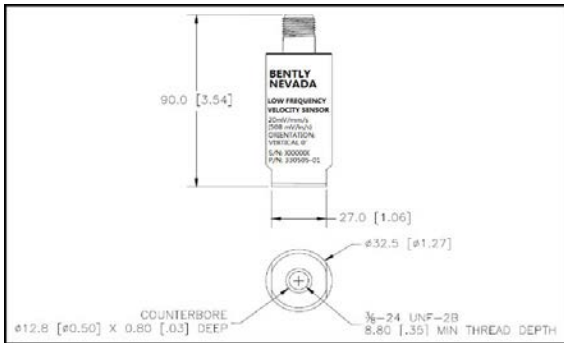


Figure 7: 330505 Velomitor

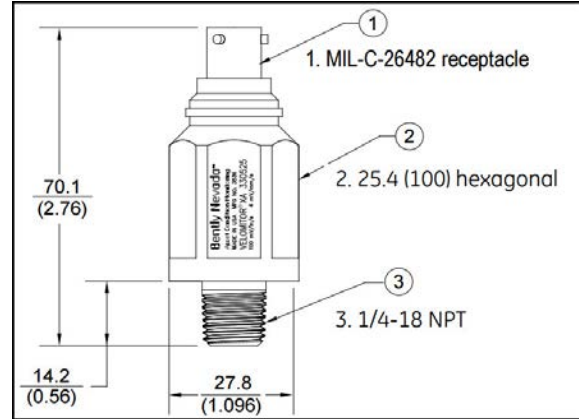


Figure 8: 330525 Velomitor

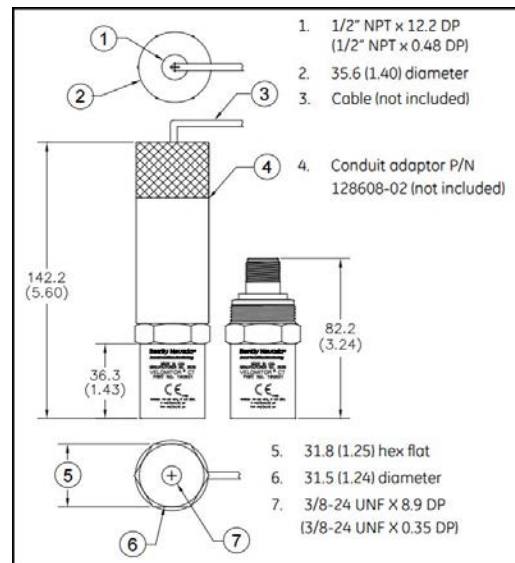


Figure 9: 190501 Velomitor

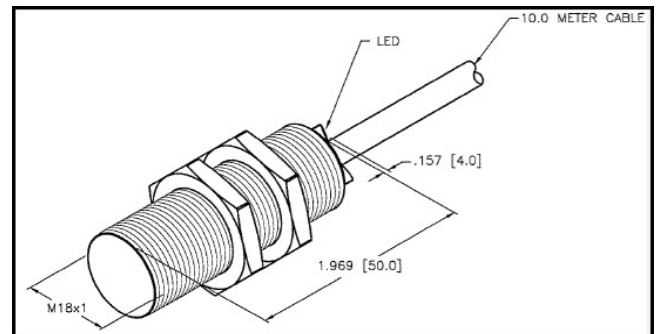


Figure 10: 100M0741 Proximity Switch

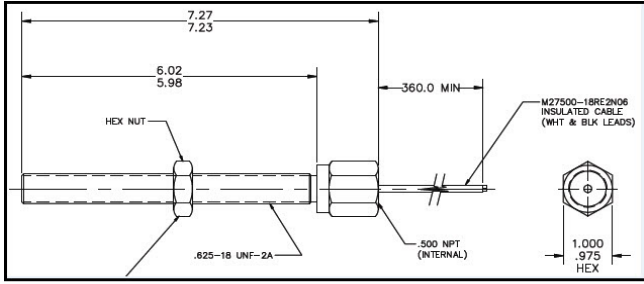


Figure 11: 284947 Magnetic Pickup

Proximity Transducer System

Refer to the following proximity transducer system datasheets for details.

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

02120015	Bulk Cable from Proximity sensor to monitor (500 ft.)
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9571-AA2	Low cost cable for accelerometer
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A: From "02" to "99" Increments of 1.0 foot


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

84661-AA2	Armored cable for 2 -wire transducer
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A: From "03" to "99" Increments of 1.0 foot

INCREMENTS OF 1.0 FOOT			
EXAMPLE:	<table border="1"><tr><td>1</td><td>2</td></tr></table> = 12 FEET	1	2
1	2		
	<table border="1"><tr><td>2</td><td>5</td></tr></table> = 25 FEET	2	5
2	5		
MIN LENGTH = 3.0 FEET			
MAX LENGTH = 99 FEET			

CB2W100-AAA	Cable for 2 -wire transducer
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 The CB2W100 cable is not recommended for use with the 200350 Accelerometer. The O-ring will not form a proper seal with the accelerometer.

A: Cable Length

015	15 ft. (4.8 m)
032	32 ft. (9.8 m)
064	64 ft. (19.5 m)
112	112 ft. (34.1 m)
125	125 ft. (38.1 m)
150	150 ft. (45.7 m)
200	200 ft. (61.0 m)
250	250 ft. (76.2 m)


Splash Proof Cable for 2-wire transducer


9571 Mod : 285031-AA²

Cable for 2-wire extension with Splash Proof Connection. This cable assembly provides an equivalent IP66 level of protection.

A: Cable Lengths

16	16 ft. (4.8 m)
32	32 ft. (9.8 m)
64	64 ft. (19.5 m)

 For conducted RF performance, metal conduit with both ends grounded is required for Proximity 3300-NSV cables and Accelerometer 330400 cable.

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

286244	Magnetic mounting base ¼-28 threaded hole
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Ethernet Cables

138131-AAA

Standard 10 Base-T/100 Base-TX Shielded Category 5 Cable with RJ-45 connectors (solid conductor)

A: Cable Length

006	6 ft. (1.8 m)
010	10 ft. (3.0 m)
025	25 ft. (7.6 m)
040	40 ft. (12.2 m)
050	50 ft. (15.2 m)
075	75 ft. (22.9 m)
085	85 ft. (25.9 m)
100	100 ft. (30.5 m)

Spares

105M6203-	35mm DIN rail mount and screws (included)
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01	with 2300/20 monitor)
106M3210	10-pin 4-20mA output connector
106M2223	5-pin contact input connector (Alarm Reset)
106M3408	5-pin contact input connector (Alarm Inhibit, Config lock)
106M3211	16-pin transducer input connector
106M3212	6-pin relay output connector
106M2231	3-pin power input connector

Accessories

02120015	Bulk Cable from Proximity sensor to monitor (500 ft.)
9571-AA²	Low cost cable for 2-wire transducer

Software

100M9465-01	<p>BN Monitor Configuration SW/FW DVD</p> <ul style="list-style-type: none"> • BNMC version 5.2 or greater • 2300 series monitor firmware • (DVD includes 2300 Series Software Guide)
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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

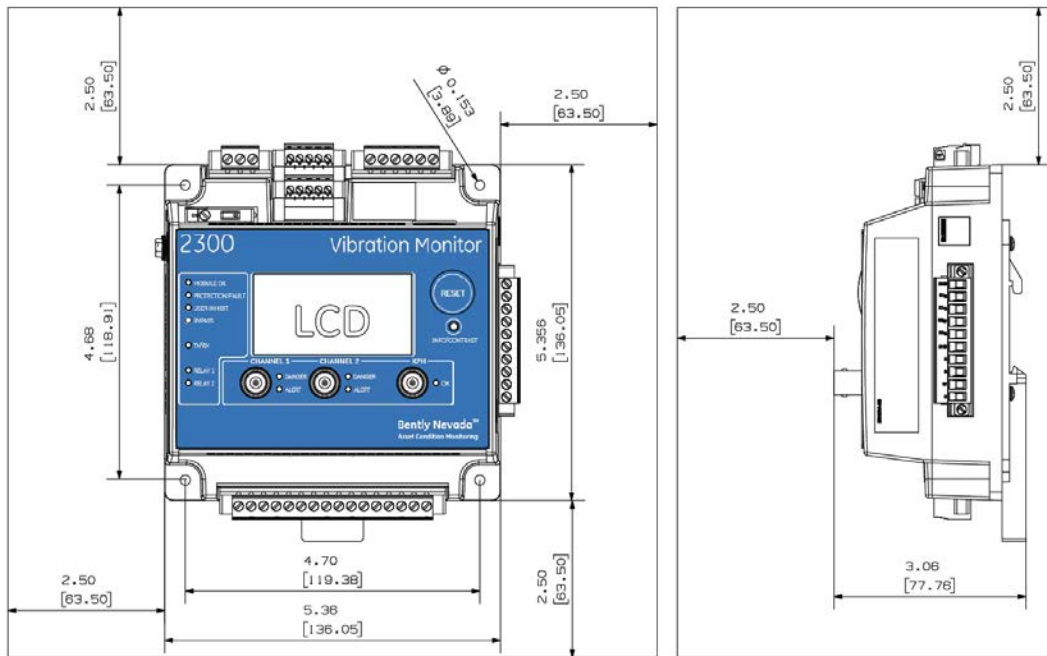


Figure 1: 2300 Series Monitor Recommended Clearance

Wiring Diagram

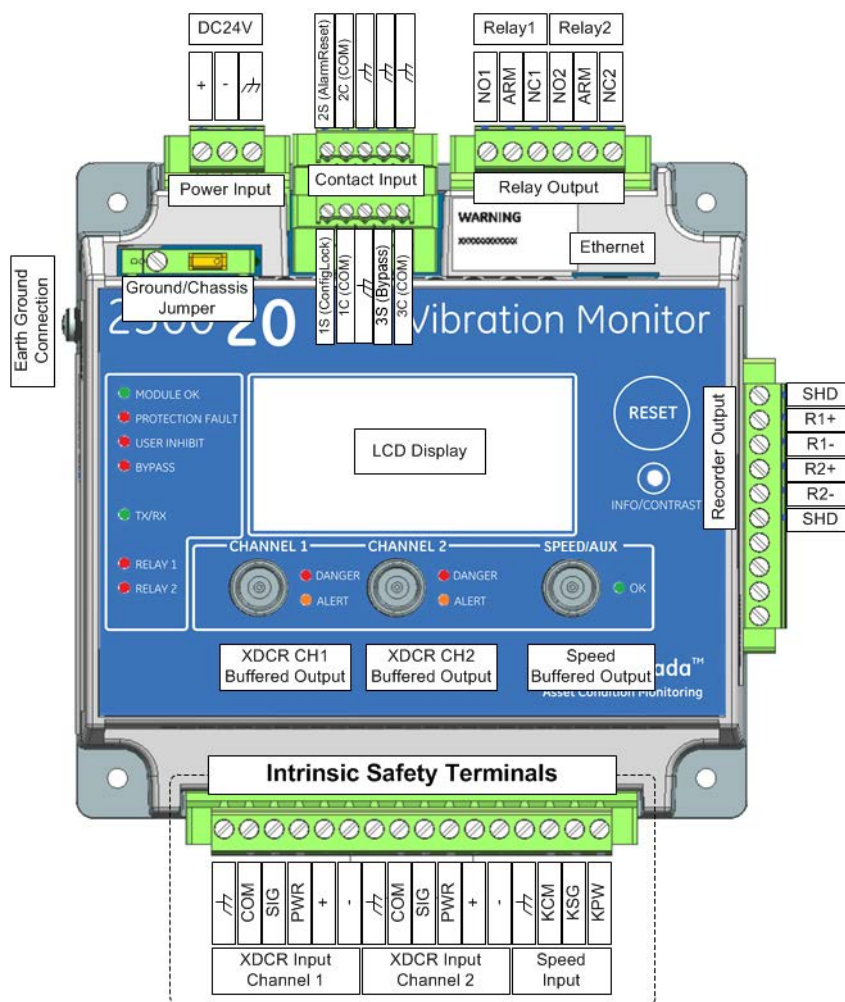



Figure 1: 2300/20 Wiring Diagram

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

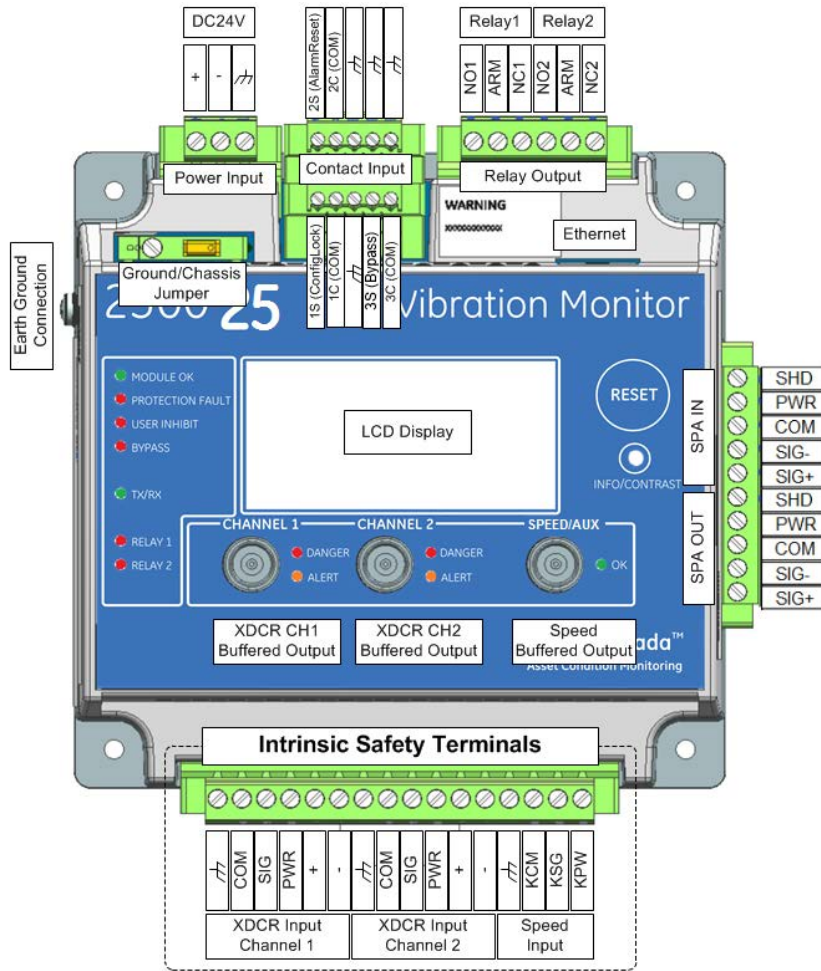


Figure 1: 2300/25 Wiring Diagram



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

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1631 Bently Parkway South, Minden, Nevada USA 89423



Bently Nevada

Your distributor / Votre distributeur
FRANCE +33 (0) 650 590 965
CAMEROUN +237 6 52 12 70 95



@sales: ventes@fr-eps.com
@logistics: logistique@fr-eps.com
www.fr-eps.com
