

INDUSTRIAL AUTOMATION PRODUCT

# 2300/25-00

2300/25 vibration monitor with Trendmaster SPA interface

Two vibration inputs, one speed input, relays and SPA/Ethernet communications

| IDENTITY      | VERIFIED VALUE                |
|---------------|-------------------------------|
| Manufacturer  | Bently Nevada                 |
| System family | 2300 Series machinery monitor |
| Part number   | 2300/25-00                    |
| Country       | USA                           |
| HS code       | 8537101190                    |

APTER POWER SALES TEAM

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## Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

| PARAMETER              | TECHNICAL VALUE               |
|------------------------|-------------------------------|
| Complete model         | 2300/25-00                    |
| Approval option        | No agency approval option     |
| Measurement channels   | 2                             |
| Speed channel          | 1                             |
| Power input            | 18 to 36 V DC, 7.5 W maximum  |
| Input range            | -0.25 to -22 V                |
| Input ADC              | Independent 24-bit converters |
| Band-pass filter       | 0.2 Hz to 20 kHz configurable |
| Measurement accuracy   | +/-1% of full scale           |
| Proximity scale factor | 5 to 1000 mV/mil              |
| Proximity full scale   | 0 to 160 mil peak-to-peak     |
| RPM range              | 1 to 120,000                  |
| Buffered outputs       | 3 BNC outputs                 |
| Relay outputs          | 2 SPDT dry contacts           |
| Network                | Modbus over Ethernet          |
| 2300/25 interface      | Trendmaster SPA               |

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# System Role and Architecture

Two vibration inputs, one speed input, relays and SPA/Ethernet communications

FUNCTION 1

Samples two vibration channels synchronously

FUNCTION 2

Accepts proximity, velocity or acceleration inputs

FUNCTION 3

Provides a dedicated speed channel

FUNCTION 4

Connects to installed Trendmaster SPA infrastructure

## Matched system components

- compatible proximity or seismic transducers
- speed or Keyphasor input
- two programmable relay circuits
- System 1 and Trendmaster SPA infrastructure

## SYSTEM INTEGRATION RECORD

| INTEGRATION ITEM           | DOCUMENTED ROLE                              |
|----------------------------|----------------------------------------------|
| Installed host / carrier   | compatible proximity or seismic transducers  |
| Companion hardware         | speed or Keyphasor input                     |
| Field connection           | two programmable relay circuits              |
| Primary system function    | Samples two vibration channels synchronously |
| Controlled acceptance duty | Pump and fan protection                      |

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# Applications and Engineering Context

**Pump and fan protection**

Samples two vibration channels synchronously

**Compressor condition monitoring**

Accepts proximity, velocity or acceleration inputs

**Trendmaster SPA modernization**

Provides a dedicated speed channel

**2300 monitor renewal**

Connects to installed Trendmaster SPA infrastructure

**TECHNICAL NOTE**

Verify 2300/25-00, transducer type and scale factor, channel band-pass settings, speed input, relay logic, SPA address and Ethernet configuration; prove alert, danger, buffered output and network data before service.

**MODEL-SPECIFIC ACCEPTANCE EVIDENCE**

| CHECK              | ACCEPTANCE CONDITION                         |
|--------------------|----------------------------------------------|
| Identity           | 2300/25-00 / 2300/25-00 recorded             |
| Physical interface | compatible proximity or seismic transducers  |
| Companion check    | speed or Keyphasor input                     |
| Functional proof   | Samples two vibration channels synchronously |
| Application test   | Pump and fan protection                      |

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## Engineering Precautions

1

Verify the complete 2300/25-00 marking and its assigned 2300 Series machinery monitor position before work.

2

Place the connected pump and fan protection process in the approved maintenance state.

3

Isolate applicable power and two vibration inputs, one speed input, relays and spa/ethernet communications field energy before disconnecting conductors.

4

Record connector, conductor, address, firmware and software identities before removal.

5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

### RELATED PRODUCTS ON APTER POWER

| MODEL                                    | SYSTEM ROLE                                        | APTER POWER PAGE                                                   |
|------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------|
| Bently Nevada 330103 00 22 50 12 00      | Related Bently Nevada machinery-monitoring product | <a href="#">View Bently Nevada 330103 00 22 50 12 00 page</a>      |
| Bently Nevada 330103 00 16 50 12 00      | Related Bently Nevada machinery-monitoring product | <a href="#">View Bently Nevada 330103 00 16 50 12 00 page</a>      |
| Bently Nevada 330103 00 13 50 12 00      | Related Bently Nevada machinery-monitoring product | <a href="#">View Bently Nevada 330103 00 13 50 12 00 page</a>      |
| Bently Nevada 330101 00 16 10 11 00      | Related Bently Nevada machinery-monitoring product | <a href="#">View Bently Nevada 330101 00 16 10 11 00 page</a>      |
| Bently Nevada 330104 04 09 10 01 05      | Related Bently Nevada machinery-monitoring product | <a href="#">View Bently Nevada 330104 04 09 10 01 05 page</a>      |
| Bently Nevada 330104 00 09 10 01 00      | Related Bently Nevada machinery-monitoring product | <a href="#">View Bently Nevada 330104 00 09 10 01 00 page</a>      |
| Bently Nevada 330180 X1 05 MOD 145004 15 | Related Bently Nevada machinery-monitoring product | <a href="#">View Bently Nevada 330180 X1 05 MOD 145004 15 page</a> |
| Bently Nevada 330180 X1 05 MOD 145004 94 | Related Bently Nevada machinery-monitoring product | <a href="#">View Bently Nevada 330180 X1 05 MOD 145004 94 page</a> |

### MANUFACTURER SOURCE RECORD

Bently Nevada 2300/20 and 2300/25 Vibration Monitors Datasheet

105M0340 Rev. AD

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