

2300/25-00

2300/25 vibration monitor with Trendmaster SPA interface

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

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

2300 Series machinery monitor

PART

2300/25-00

ORIGIN / HS

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PRODUCT OVERVIEW

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

1

Samples two vibration channels synchronously

2

Accepts proximity, velocity or acceleration inputs

3

Provides a dedicated speed channel

4

Connects to installed Trendmaster SPA infrastructure

SYSTEM COMPONENTS

compatible proximity or seismic transducers

speed or Keyphasor input

two programmable relay circuits

System 1 and 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.

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

ENGINEERING 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 31000 26 05 20 041 01 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 31000 26 05 20 041 01 02 page
Bently Nevada 330881 16 11 165 07 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330881 16 11 165 07 02 page
Bently Nevada 21000 28 05 00 130 04 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21000 28 05 00 130 04 02 page
Bently Nevada 330880 16 00 021 03 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330880 16 00 021 03 02 page
Bently Nevada 330901 00 14 10 02 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330901 00 14 10 02 00 page
Bently Nevada 330901 00 32 10 02 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330901 00 32 10 02 00 page
Bently Nevada 21000 16 10 00 126 04 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21000 16 10 00 126 04 02 page
Bently Nevada 330909 00 60 10 01 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330909 00 60 10 01 00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Confirm the installed compatible proximity or seismic transducers and speed or Keyphasor input against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended compressor condition monitoring function and retain the final test result.

ENGINEER FAQ

Q1 Does 2300/25-00 match compatible proximity or seismic transducers in a Pump and fan protection installation?

Verify the complete 2300/25-00 marking, the documented 2300 Series machinery monitor position and the installed compatible proximity or seismic transducers before fitting the assembly.

Q3 Which 2300 Series machinery monitor records should be captured before removing 2300/25-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 2300/25-00 before disconnection.

Q5 Which speed or Keyphasor input condition should be checked when 2300/25-00 reports an abnormal state?

Check the speed or Keyphasor input supply, seating and connection first, then compare channel diagnostics with the recorded 2300/25-00 baseline.

Q7 What maintenance evidence is required after 2300/25-00 is used for Trendmaster SPA modernization?

Retain the nameplate record, corrective action, final diagnostics and a controlled trendmaster spa modernization functional-test result for 2300/25-00.

Q2 How should 2300/25-00 be wired when it must samples two vibration channels synchronously?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 2300/25-00; then continuity-test the affected path.

Q4 What controlled test confirms that 2300/25-00 can accepts proximity, velocity or acceleration inputs?

Apply the approved field or simulated stimulus, observe the 2300 Series machinery monitor indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 2300/25-00 be moved directly into Compressor condition monitoring without validating System 1 and Trendmaster SPA infrastructure?

No. Confirm the System 1 and Trendmaster SPA infrastructure, revision, connection scheme and 2300 Series machinery monitor configuration before transferring 2300/25-00 to that duty.

Q8 How should 2300/25-00 be returned to service in 2300 monitor renewal?

Restore power under control, verify provides a dedicated speed channel, exercise the intended signal path and release 2300/25-00 only after the 2300 Series machinery monitor remains in its approved operating state.

SOURCE Bently Nevada 2300/20 and 2300/25 Vibration Monitors Datasheet | 105M0340 Rev. AD

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