

INDUSTRIAL AUTOMATION PRODUCT

2300/25

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
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Complete model	2300/25
Approval option	Model family configuration
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

3

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

4

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, 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 / 2300/25 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

5

Engineering Precautions

1

Verify the complete 2300/25 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 330101 00 16 10 11 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330101 00 16 10 11 05 page
Bently Nevada 330103 00 22 50 12 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330103 00 22 50 12 05 page
Bently Nevada 330103 00 25 05 02 BR	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330103 00 25 05 02 BR page
Bently Nevada 330103 00 16 50 12 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330103 00 16 50 12 05 page
Bently Nevada 330103 00 13 50 12 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330103 00 13 50 12 05 page
Bently Nevada 330180 12 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330180 12 05 page
Bently Nevada 31000 00 00 15 051 01 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 31000 00 00 15 051 01 02 page
Bently Nevada 31000 00 00 15 023 01 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 31000 00 00 15 023 01 02 page

MANUFACTURER SOURCE RECORD

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

105M0340 Rev. AD

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

