

3300/45-02-01-02-00

Dual Differential Expansion Monitor

Bently Nevada 3300/45-02-01-02-00 is a dual differential expansion monitor for the 3300 monitoring system. It combines paired proximity-transducer measurements to supervise differential expansion at two machine locations.

BRAND	Bently Nevada	FAMILY	Bently Nevada 3300 Monitoring System
PART	3300/45-02-01-02-00	SYSTEM ROLE	Calculates differential expansion from paired proximity inputs

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3300/45-02-01-02-00

MANUFACTURER SOURCE RECORD

3300/45 Dual Differential Expansion Monitor Datasheet
Bently Nevada publication 141507

Product Overview

SYSTEM FUNCTION

Bently Nevada 3300/45-02-01-02-00 is a dual differential expansion monitor for the 3300 monitoring system. It combines paired proximity-transducer measurements to supervise differential expansion at two machine locations.

FUNCTION 1

Calculates differential expansion from paired proximity inputs

FUNCTION 2

Provides two independent machine-expansion channels

FUNCTION 3

Supports alert and danger supervision in the 3300 rack

FUNCTION 4

Preserves the configured order execution and channel pairing

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada 3300 Monitoring System
Primary interface	Calculates differential expansion from paired proximity inputs
Engineering context	Use 3300/45-02-01-02-00 only with its documented host, interfaces and accessories; record the as-found arrangement and complete a controlled functional verification after installation.
Commissioning duty	Apply controlled paired inputs and prove both differential alarms before release.

TECHNICAL NOTE

Install 3300/45-02-01-02-00 only in the documented Bently Nevada 3300 Monitoring System arrangement and record the exact connection and configuration before removal. Restore the approved settings, then verify diagnostics and functional response before release.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Country of origin	USA	Transducer inputs	Paired proximity transducers
HS code	8537101190	Host system	Bently Nevada 3300
Monitor type	Dual differential expansion	Requested alias	3300/45
Measurement channels	2	Configured order number	3300/45-02-01-02-00

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
330101-00-08-05-02-05	8 mm probe	View 330101-00-08-05-02-05 page
330101-00-20-20-02-CN	8 mm probe	View 330101-00-20-20-02-CN page
330103-00-04-10-02-00	metric probe	View 330103-00-04-10-02-00 page
330103-00-12-10-01-00	metric probe	View 330103-00-12-10-01-00 page
330104-00-04-10-02-05	armored probe	View 330104-00-04-10-02-05 page
330104-00-12-10-02-00	armored probe	View 330104-00-12-10-02-00 page
330104-03-06-10-02-00	armored probe	View 330104-03-06-10-02-00 page
330104-06-12-10-02-00	armored probe	View 330104-06-12-10-02-00 page

ENGINEERING BOUNDARY

Confirm the complete 3300/45-02-01-02-00 marking, installed host, hardware execution, terminals or connectors, wiring, grounding, configuration, accessories and controlled commissioning results.

Applications and Precautions

Common Applications

Steam-turbine differential expansion

Supervises rotor-to-casing growth using paired axial probe locations.

Compressor case-expansion monitoring

Tracks relative axial movement across documented machine reference points.

Large rotating-train startup

Provides differential expansion indication during controlled thermal growth.

3300 monitor replacement

Restores the configured two-channel monitor while retaining transducer pairing.

Product Precautions

- 1

Confirm 3300/45-02-01-02-00 and the recorded 3300 rack position.
- 2

Place the machine and associated trip logic in the approved maintenance state.
- 3

Record all four transducer inputs and their two differential channel pairs.
- 4

Capture zero positions, alert/danger settings and recorder scaling before removal.
- 5

Inspect rack connector, grounding and input cable shields.
- 6

Restore the exact channel pairing and configured transducer scale factors.
- 7

Verify monitor OK status, zero and each recorder or display output.
- 8

Apply controlled paired inputs and prove both differential alarms before release.

IMPORTANT NOTICE

Confirm the complete 3300/45-02-01-02-00 marking, installed host, hardware execution, terminals or connectors, wiring, grounding, configuration, accessories and controlled commissioning results.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	3300/45-02-01-02-00
Configuration	Verify monitor OK status, zero and each recorder or display output.
Functional release	Apply controlled paired inputs and prove both differential alarms before release.

Engineer FAQ

Q1 Which complete article marking distinguishes 3300/45-02-01-02-00 from nearby variants?

Confirm 3300/45-02-01-02-00, 3300 rack, hardware revision, four proximity inputs, two differential pairs, probe polarity, scale factors, zero positions, alarm setpoints, recorder outputs, grounding and controlled channel-test results before commissioning.

Q3 How should the host position and mating hardware for 3300/45-02-01-02-00 be verified?

The monitor operates with four installed proximity-transducer signals arranged as two differential pairs. Commissioning includes rack position, input pairing, polarity, zero, alarm setpoints, recorder outputs and controlled response checks.

Q5 What wiring or connector checks are required for 3300/45-02-01-02-00?

Restore the exact channel pairing and configured transducer scale factors.

Q7 Which alarms or status indications should be reviewed after replacing 3300/45-02-01-02-00?

Confirm 3300/45-02-01-02-00 and the recorded 3300 rack position. Inspect rack connector, grounding and input cable shields.

Q2 What system function is assigned specifically to 3300/45-02-01-02-00?

Calculates differential expansion from paired proximity inputs. It combines paired proximity-transducer measurements to supervise differential expansion at two machine locations.

Q4 Which power, signal or field circuits must be controlled before servicing 3300/45-02-01-02-00?

Place the machine and associated trip logic in the approved maintenance state. Record all four transducer inputs and their two differential channel pairs.

Q6 How is the approved software or hardware setup for 3300/45-02-01-02-00 preserved?

Verify monitor OK status, zero and each recorder or display output.

Q8 How is a controlled functional release completed for 3300/45-02-01-02-00?

Apply controlled paired inputs and prove both differential alarms before release.

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