

3500/45

Position Monitor

Bently Nevada 3500/45 is a four-channel Position Monitor for thrust, differential expansion, case expansion and valve-position measurements.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3500 System

PART

3500/45

PRODUCT TYPE

Position Monitor

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Bently Nevada 3500/45 is a four-channel Position Monitor for thrust, differential expansion, case expansion and valve-position measurements.

1

Provides four position channels

2

Accepts proximity and LVDT inputs

3

Supports multiple TSI position functions

4

Drives programmable alarms

SYSTEM COMPONENTS

Bently Nevada 3500 System

the documented companion module

approved field wiring

the controlled rack configuration

TECHNICAL NOTE

Retain the exact channel measurement type, sensor selection, scale, polarity and alarm logic before replacing 3500/45.

TECHNICAL DATA

PARAMETER	VALUE
monitor type	four-channel Position Monitor
accepted sensors	proximity transducers, rotary position transducers, DC LVDTs and AC LVDTs
thrust measurement	supported
differential expansion	standard, ramp and complementary input modes

PARAMETER	VALUE
case expansion	supported on channels 3 and 4
valve position	supported with the approved rotary position transducer
alarm handling	programmable alert and danger setpoints
configuration platform	3500 Rack Configuration Software

ENGINEERING NOTE

Retain the exact channel measurement type, sensor selection, scale, polarity and alarm logic before replacing 3500/45.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GE IC670ALG620	Related industrial automation product	View GE IC670ALG620 page
GE IC670ALG330	Related industrial automation product	View GE IC670ALG330 page
GE IC670ALG320	Related industrial automation product	View GE IC670ALG320 page
GE IC670ALG310	Related industrial automation product	View GE IC670ALG310 page
GE IC670ALG240	Related industrial automation product	View GE IC670ALG240 page
GE IC670ALG230	Related industrial automation product	View GE IC670ALG230 page
GE IC670MFP100	Related industrial automation product	View GE IC670MFP100 page
GE IC670FBI001	Related industrial automation product	View GE IC670FBI001 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Axial thrust position

Provides four position channels

Differential expansion

Accepts proximity and LVDT inputs

Case expansion

Supports multiple TSI position functions

Valve position

Drives programmable alarms

PRODUCT PRECAUTIONS

- 1 Verify the complete 3500/45 marking and its assigned Bently Nevada 3500 System position before work.
- 2 Place the connected axial thrust position process in the approved maintenance state.
- 3 Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.
- 4 Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.
- 5 Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.
- 6 Confirm the installed Bently Nevada 3500 System and the documented companion module against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended differential expansion function and retain the final acceptance result.

ENGINEER FAQ

Q1 Which official monitor type applies to Bently Nevada 3500/45?

Baker Hughes documents the monitor type as four-channel Position Monitor. Verify this exact identity and its installed configuration before service.

Q3 What thrust measurement is documented for Bently Nevada 3500/45?

Baker Hughes documents the thrust measurement as supported. Verify this exact identity and its installed configuration before service.

Q5 What does Baker Hughes specify as the case expansion for Bently Nevada 3500/45?

Baker Hughes documents the case expansion as supported on channels 3 and 4. Verify this exact identity and its installed configuration before service.

Q7 Which published alarm handling distinguishes Bently Nevada 3500/45?

Baker Hughes documents the alarm handling as programmable alert and danger setpoints. Verify this exact identity and its installed configuration before service.

Q2 How is the accepted sensors identified for Bently Nevada 3500/45?

Baker Hughes documents the accepted sensors as proximity transducers, rotary position transducers, DC LVDTs and AC LVDTs. Verify this exact identity and its installed configuration before service.

Q4 Which differential expansion must be retained for Bently Nevada 3500/45?

Baker Hughes documents the differential expansion as standard, ramp and complementary input modes. Verify this exact identity and its installed configuration before service.

Q6 How should technicians verify the valve position of Bently Nevada 3500/45?

Baker Hughes documents the valve position as supported with the approved rotary position transducer. Verify this exact identity and its installed configuration before service.

Q8 What is the documented configuration platform used by Bently Nevada 3500/45?

Baker Hughes documents the configuration platform as 3500 Rack Configuration Software. Verify this exact identity and its installed configuration before service.

SOURCE 3500/45 Position Monitor Datasheet | 141537 Rev. R

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