

3500/64M

Dynamic Pressure Monitor

Bently Nevada 3500/64M is a single-slot four-channel Dynamic Pressure Monitor for high-temperature pressure transducers and machinery-protection alarms.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3500 System

PART

3500/64M

PRODUCT TYPE

Dynamic Pressure Monitor

APTER POWER SALES TEAM

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PRODUCT OVERVIEW

Bently Nevada 3500/64M is a single-slot four-channel Dynamic Pressure Monitor for high-temperature pressure transducers and machinery-protection alarms.

1

Accepts four pressure-transducer inputs

2

Provides bandpass dynamic-pressure values

3

Offers per-channel recorder outputs

4

Supports cascade filtering

SYSTEM COMPONENTS

Bently Nevada 3500 System

the documented companion module

approved field wiring

the controlled rack configuration

TECHNICAL NOTE

Retain transducer type, filter mode, full-scale range, cascade assignment, recorder scaling and alarm delays before replacing 3500/64M.

TECHNICAL DATA

PARAMETER	VALUE
channel count	four dynamic-pressure channels
accepted input	one to four high-temperature pressure-transducer signals
measured variable	bandpass dynamic pressure
dynamic sensitivity	100 mV/psi (1.45 mV/mBar)
recorder output	4 to 20 mA for each channel

PARAMETER	VALUE
buffered output impedance	550 ohm
line-rejection options	50 or 60 Hz notch filter
cascade mode	one transducer can feed four channels with separate filters and full-scale ranges
configuration platform	3500 Rack Configuration Software

ENGINEERING NOTE

Retain transducer type, filter mode, full-scale range, cascade assignment, recorder scaling and alarm delays before replacing 3500/64M.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6RY1803 0CM20	Related industrial automation product	View Siemens 6RY1803 0CM20 page
Siemens C98043 A7107 L4	Related industrial automation product	View Siemens C98043 A7107 L4 page
Siemens 6RY1803 0DB02	Related industrial automation product	View Siemens 6RY1803 0DB02 page
Siemens 6SL3200 0SP06 0AA0	Related industrial automation product	View Siemens 6SL3200 0SP06 0AA0 page
Emerson PR6426 010 140	Related industrial automation product	View Emerson PR6426 010 140 page
Emerson PR6426 000 030	Related industrial automation product	View Emerson PR6426 000 030 page
Emerson PR6424 010 140	Related industrial automation product	View Emerson PR6424 010 140 page
Emerson PR6423 10R 010	Related industrial automation product	View Emerson PR6423 10R 010 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Combustion pressure monitoring

Accepts four pressure-transducer inputs

Dynamic process pressure

Provides bandpass dynamic-pressure values

Cascade filter analysis

Offers per-channel recorder outputs

Pressure alarm protection

Supports cascade filtering

PRODUCT PRECAUTIONS

- 1 Verify the complete 3500/64M marking and its assigned Bently Nevada 3500 System position before work.
- 2 Place the connected combustion pressure monitoring 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 dynamic process pressure function and retain the final acceptance result.

ENGINEER FAQ

Q1 Which official channel count applies to Bently Nevada 3500/64M?

Baker Hughes documents the channel count as four dynamic-pressure channels. Verify this exact identity and its installed configuration before service.

Q2 How is the accepted input identified for Bently Nevada 3500/64M?

Baker Hughes documents the accepted input as one to four high-temperature pressure-transducer signals. Verify this exact identity and its installed configuration before service.

Q3 What measured variable is documented for Bently Nevada 3500/64M?

Baker Hughes documents the measured variable as bandpass dynamic pressure. Verify this exact identity and its installed configuration before service.

Q4 Which dynamic sensitivity must be retained for Bently Nevada 3500/64M?

Baker Hughes documents the dynamic sensitivity as 100 mV/psi (1.45 mV/mBar). Verify this exact identity and its installed configuration before service.

Q5 What does Baker Hughes specify as the recorder output for Bently Nevada 3500/64M?

Baker Hughes documents the recorder output as 4 to 20 mA for each channel. Verify this exact identity and its installed configuration before service.

Q6 How should technicians verify the buffered output impedance of Bently Nevada 3500/64M?

Baker Hughes documents the buffered output impedance as 550 ohm. Verify this exact identity and its installed configuration before service.

Q7 Which published line-rejection options distinguishes Bently Nevada 3500/64M?

Baker Hughes documents the line-rejection options as 50 or 60 Hz notch filter. Verify this exact identity and its installed configuration before service.

Q8 What is the documented cascade mode used by Bently Nevada 3500/64M?

Baker Hughes documents the cascade mode as one transducer can feed four channels with separate filters and full-scale ranges. Verify this exact identity and its installed configuration before service.

SOURCE 3500/64M Dynamic Pressure Monitor Datasheet | 141536 Rev. T

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