

3500/90

Communication Gateway

Bently Nevada 3500/90 is the original 3500 Communication Gateway for transferring rack values and statuses to plant automation systems.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3500 System

PART

3500/90

PRODUCT TYPE

Communication Gateway

APTER POWER SALES TEAM

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PRODUCT OVERVIEW

Bently Nevada 3500/90 is the original 3500 Communication Gateway for transferring rack values and statuses to plant automation systems.

1

Transfers 3500 rack values and statuses

2

Supports plant-system integration

3

Uses Modbus-family communication

4

Precedes the 3500/92 gateway

SYSTEM COMPONENTS

Bently Nevada 3500 System

the documented companion module

approved field wiring

the controlled rack configuration

TECHNICAL NOTE

The current Baker Hughes document identifies 3500/90 only as the original gateway predecessor; retain the installed manual, register map and port configuration for exact service details.

TECHNICAL DATA

PARAMETER	VALUE
product generation	original 3500 Communication Gateway
rack data	monitored values and statuses
automation integration	process control and other automation systems
serial interfaces	RS232, RS422 and RS485 family interfaces documented for the successor

PARAMETER	VALUE
Ethernet family interface	TCP/IP communication documented for the successor
protocol family	Modicon Modbus and proprietary Bently Nevada communication
primary-value registers	supported by the original 3500/90
official successor	3500/92 Communication Gateway

ENGINEERING NOTE

The current Baker Hughes document identifies 3500/90 only as the original gateway predecessor; retain the installed manual, register map and port configuration for exact service details.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6SE7031 7HG84 1JC2	Related industrial automation product	View Siemens 6SE7031 7HG84 1JC2 page
Siemens 6SE7031 7HG84 1JC1	Related industrial automation product	View Siemens 6SE7031 7HG84 1JC1 page
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ABB RPBA 01 3ABD64606859	Related industrial automation product	View ABB RPBA 01 3ABD64606859 page
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APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

DCS data integration

Transfers 3500 rack values and statuses

Serial Modbus exchange

Supports plant-system integration

Rack software communication

Uses Modbus-family communication

Legacy gateway replacement

Precedes the 3500/92 gateway

PRODUCT PRECAUTIONS

- 1 Verify the complete 3500/90 marking and its assigned Bently Nevada 3500 System position before work.
- 2 Place the connected dcs data integration 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 serial modbus exchange function and retain the final acceptance result.

ENGINEER FAQ

Q1 Which official product generation applies to Bently Nevada 3500/90?

Baker Hughes documents the product generation as original 3500 Communication Gateway. Verify this exact identity and its installed configuration before service.

Q2 How is the rack data identified for Bently Nevada 3500/90?

Baker Hughes documents the rack data as monitored values and statuses. Verify this exact identity and its installed configuration before service.

Q3 What automation integration is documented for Bently Nevada 3500/90?

Baker Hughes documents the automation integration as process control and other automation systems. Verify this exact identity and its installed configuration before service.

Q4 Which serial interfaces must be retained for Bently Nevada 3500/90?

Baker Hughes documents the serial interfaces as RS232, RS422 and RS485 family interfaces documented for the successor. Verify this exact identity and its installed configuration before service.

Q5 What does Baker Hughes specify as the ethernet family interface for Bently Nevada 3500/90?

Baker Hughes documents the ethernet family interface as TCP/IP communication documented for the successor. Verify this exact identity and its installed configuration before service.

Q6 How should technicians verify the protocol family of Bently Nevada 3500/90?

Baker Hughes documents the protocol family as Modicon Modbus and proprietary Bently Nevada communication. Verify this exact identity and its installed configuration before service.

Q7 Which published primary-value registers distinguishes Bently Nevada 3500/90?

Baker Hughes documents the primary-value registers as supported by the original 3500/90. Verify this exact identity and its installed configuration before service.

Q8 What is the documented official successor used by Bently Nevada 3500/90?

Baker Hughes documents the official successor as 3500/92 Communication Gateway. Verify this exact identity and its installed configuration before service.

SOURCE 3500/92 Communication Gateway Datasheet (official comparison to original 3500/90) | 141542 Rev. N

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