

INDUSTRIAL AUTOMATION PRODUCT

3500/90

Communication Gateway

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

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3500 System
Part number	3500/90

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Technical Specifications

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

PARAMETER	TECHNICAL 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
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 DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Bently Nevada 3500 System
Companion hardware	the documented companion module
Field connection	approved field wiring
Primary system function	Transfers 3500 rack values and statuses
Controlled acceptance duty	DCS data integration

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System Role and Architecture

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

FUNCTION 1

Transfers 3500 rack values and statuses

FUNCTION 2

Supports plant-system integration

FUNCTION 3

Uses Modbus-family communication

FUNCTION 4

Precedes the 3500/92 gateway

Matched system components

- Bently Nevada 3500 System
- the documented companion module
- approved field wiring
- the controlled rack configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Bently Nevada 3500 System
Companion hardware	the documented companion module
Field connection	approved field wiring
Primary system function	Transfers 3500 rack values and statuses
Controlled acceptance duty	DCS data integration

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	3500/90 / 3500/90 recorded
Physical interface	Bently Nevada 3500 System
Companion check	the documented companion module
Functional proof	Transfers 3500 rack values and statuses
Application test	DCS data integration

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GE DS200SBCBG1ADC	Related industrial automation product	View GE DS200SBCBG1ADC page
GE DS200PCTMG1AAA	Related industrial automation product	View GE DS200PCTMG1AAA page
GE DS200PCCAG9ACB	Related industrial automation product	View GE DS200PCCAG9ACB page
GE DS200FCRRG1AKD	Related industrial automation product	View GE DS200FCRRG1AKD page
GE DS200ADGIH1AAA	Related industrial automation product	View GE DS200ADGIH1AAA page
GE A06B 0104 B111 7000	Related industrial automation product	View GE A06B 0104 B111 7000 page
Woodward 8200 226	Related industrial automation product	View Woodward 8200 226 page
Fanuc A86L 0001 0235	Related industrial automation product	View Fanuc A86L 0001 0235 page

MANUFACTURER SOURCE RECORD

3500/92 Communication Gateway Datasheet (official comparison to original 3500/90)

141542 Rev. N

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