

3500/20

Rack Interface Module

CONTROLLED ENGINEERING COPY

Record rack address, RS422 topology, Data Manager connection and software communication settings before replacing 3500/20.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	3500/20
Manufacturer part	3500/20
Hardware type	Rack Interface Module
System family	Bently Nevada 3500 System



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 3500/20 marking and its assigned Bently Nevada 3500 System position before work.
- 2

Place the connected rack configuration access 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.

MATCHED HARDWARE

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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	3500/20 / 3500/20 recorded
Physical interface	Bently Nevada 3500 System
Companion check	the documented companion module
Functional proof	Provides the rack communication interface
Application test	Rack configuration access

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
module role	Rack Interface Module
rack communication	proprietary Bently Nevada protocol
primary serial interface	RS422
maximum rack-link rate	38.4 kbaud
maximum RS422 distance	1200 m
rack topology	multiple racks may be daisy-chained
Data Manager rate	9600 baud fixed
Data Manager cable limit	3 m
operating temperature	-30 to +65 degC

FIELD NOTE

Record rack address, RS422 topology, Data Manager connection and software communication settings before replacing 3500/20.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	3500/20 / 3500/20 recorded
Physical interface	Bently Nevada 3500 System
Companion check	the documented companion module
Functional proof	Provides the rack communication interface
Application test	Rack configuration access

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed Bently Nevada 3500 System and the documented companion module against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended condition data acquisition function and retain the final acceptance result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	3500/20
INSTALLED POSITION	Documented Bently Nevada 3500 System position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6SE7027 2TD84 6HF3	Related industrial automation product	View Siemens 6SE7027 2TD84 6HF3 page
Siemens 6RY1803 0AA25 0AA1	Related industrial automation product	View Siemens 6RY1803 0AA25 0AA1 page
Siemens 6SE7035 1EJ84 1JC1	Related industrial automation product	View Siemens 6SE7035 1EJ84 1JC1 page
Siemens 6SE7033 7EG84 1JF1	Related industrial automation product	View Siemens 6SE7033 7EG84 1JF1 page
Siemens 6SL3352 6TG38 8AA3	Related industrial automation product	View Siemens 6SL3352 6TG38 8AA3 page
Siemens 6SE7041 2WL84 1JC1	Related industrial automation product	View Siemens 6SE7041 2WL84 1JC1 page
Siemens 6SL3120 2TE21 8AC0	Related industrial automation product	View Siemens 6SL3120 2TE21 8AC0 page
Siemens 6RY1803 1DA04	Related industrial automation product	View Siemens 6RY1803 1DA04 page

SOURCE IDENTIFIERS

3500/20 Rack Interface Module Datasheet
141531 Rev. D

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