APTER POWER FIELD WORKBOOK

INSTALLATION | APPLICATION | VERIFICATION

7EX290.50-1

System 2003 X2X Link bus controller

CONTROLLED ENGINEERING COPY

Record X2X node and rack identities, match the separately ordered terminal block and verify all remote I/O after controlled startup.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	7EX290.50-1
Manufacturer part	7EX290.50-1
Hardware type	X2X Link bus controller
System family	B&R System 2003 expansion

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

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01 PRE-INSTALLATION PLAN

1. Verify the full 7EX290.50-1 marking and its assigned B&R System 2003 expansion position before work.
2. Place the connected machine or process in the approved maintenance state.
3. Isolate the applicable supply and electrically isolated x2x link process data field energy before disconnecting conductors.
4. Record connector, conductor, address and software identities before removal.
5. Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

MATCHED HARDWARE

- System 2003 rack
- separate terminal block
- X2X Link cable
- upstream B&R controller

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	7EX290.50-1 / 7EX290.50-1 recorded
Physical interface	System 2003 rack
Companion check	separate terminal block
Functional proof	Provides one X2X Link interface
Application test	System 2003 remote I/O

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Function	X2X Link bus controller
Supply	24 V DC
Power consumption	3.2 W
X2X interfaces	1
Isolation	X2X Link electrically isolated
Terminal block	Ordered separately

SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	System 2003 rack
Companion hardware	separate terminal block
Field connection	X2X Link cable
Primary system function	Provides one X2X Link interface
Controlled acceptance duty	System 2003 remote I/O

FIELD NOTE

Record X2X node and rack identities, match the separately ordered terminal block and verify all remote I/O after controlled startup.

03 COMMISSIONING WORKFLOW

1. Confirm 7EX290.50-1 and part number 7EX290.50-1 against the installed record.
2. Verify the physical connection to System 2003 rack.
3. Apply the documented technical values for function.
4. Exercise the function: provides one x2x link interface.
5. Run a controlled test for system 2003 remote i/o.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	7EX290.50-1 / 7EX290.50-1 recorded
Physical interface	System 2003 rack
Companion check	separate terminal block
Functional proof	Provides one X2X Link interface
Application test	System 2003 remote I/O

04 RETURN-TO-SERVICE RECORD

- [ ] Confirm the installed System 2003 rack and separate terminal block against the approved project.
- [ ] Restore power in a controlled sequence and review device, network and host diagnostics.
- [ ] Prove the intended system 2003 remote i/o function and retain the final test result.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	7EX290.50-1
INSTALLED POSITION	Documented B&R System 2003 expansion 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
8C-TDIL01	Related industrial automation product	**View 8C-TDIL01 page**
41391-261-52	Related industrial automation product	**View 41391-261-52 page**
6ES7432-1HF00-0AB0	Related industrial automation product	**View 6ES7432-1HF00-0AB0 page**
51305508-200	Related industrial automation product	**View 51305508-200 page**
51304544-100	Related industrial automation product	**View 51304544-100 page**
51304542-100	Related industrial automation product	**View 51304542-100 page**
FC-TSDI-16UNI	Related industrial automation product	**View FC-TSDI-16UNI page**
10024-I-F	Related industrial automation product	**View 10024-I-F page**

SOURCE IDENTIFIERS

B&R official product data sheet

B&R product data

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