

6DR2104-4

SIPART DR21 Process Controller

CONTROLLED ENGINEERING COPY

Siemens 6DR2104-4 is a SIPART DR21 process-controller execution documented in the DR21 manual. It combines configurable analog, digital, control-algorithm, display, output and serial-interface functions.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6DR2104-4
Manufacturer	Siemens
System family	Siemens SIPART DR21
Record scope	Installation, application and verification

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01 PRE-INSTALLATION PLAN

- 1

Confirm 6DR2104-4 and the complete SIPART DR21 nameplate.
- 2

Place the process and all final elements in the approved maintenance state.
- 3

Record every switch setting, option slot and process parameter.
- 4

Isolate supply, analog loops, digital circuits and serial interfaces.
- 5

Record terminals, ranges, setpoint source, controller action and output limits.

MATCHED HARDWARE

- 6DR2104-4 with complete nameplate identity
- Matched host, rack or transducer system
- Recorded cable, terminal and connector schedule
- Approved grounding, shielding and configuration record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6DR2104-4 recorded
Physical interface	Probe, cable and sensor matched
Functional proof	Static gap and dynamic response

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Controller family	SIPART DR21
Documented execution	6DR2104
Controller form	K-controller execution in DR21 block diagram
Analog inputs	AI1A to AI4A; function and range configured by switch settings
Digital inputs	DI functions assigned through configuration
Analog output	AO / IY configurable function
Digital outputs	Configured switching and limit-alarm functions
Setpoint command	Configurable through S42 to S45
Control algorithm	Configurable through S46 to S48
Display functions	Y and x/w display settings
Serial interface	Configurable interface functions S84 to S91
Option slots	Documented option-dependent assignments

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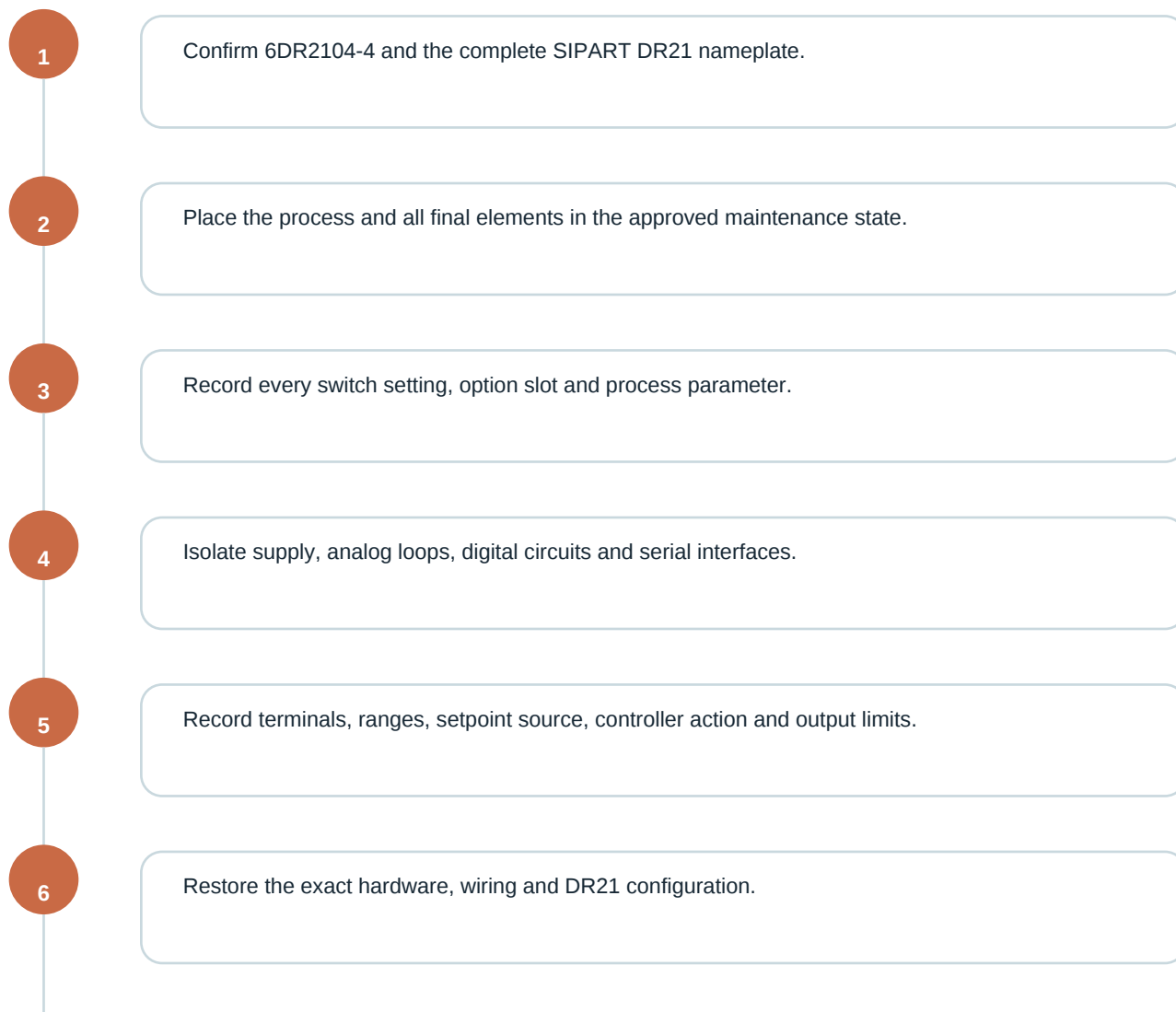
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FIELD NOTE

Use the exact 6DR2104-4 identity and record every DR21 switch setting, option slot, analog range, digital assignment, setpoint source, control algorithm and serial-interface parameter before removal. Do not copy a nearby DR21 configuration.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	6DR2104-4
Physical interface	Exact identity, installed position and every connected interface matched
Configuration	Recorded hardware and software configuration restored
Functional proof	Diagnostics and controlled functional response recorded

04 RETURN-TO-SERVICE RECORD

- ☐ Record terminals, ranges, setpoint source, controller action and output limits.
- ☐ Restore the exact hardware, wiring and DR21 configuration.
- ☐ Review display, input, output and serial-interface diagnostics after energization.
- ☐ Complete manual, setpoint, alarm and closed-loop response tests before release.

VERIFICATION RECORD

PRODUCT IDENTITY	6DR2104-4
INSTALLED POSITION	Documented installed system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Confirm the exact model remains assigned to the documented host position.
- ☐ Verify every mating interface and field connection against the as-found record.
- ☐ Exercise the intended product function under controlled conditions.
- ☐ Retain the diagnostic and functional-test result before release.

SOURCE IDENTIFIERS

SIPART DR21 Manual | Siemens C73000-B7476-C143-08