

10209/2/1

Sixteen-Channel 24 Vdc Digital Output Module

CONTROLLED ENGINEERING COPY

Check A9/C21 keying and the external load against the channel limit, confirm suppression for inductive circuits and prove watchdog de-energization during the safety test.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	10209/2/1
Manufacturer part	10209/2/1
Hardware type	16
System family	Fail Safe Controller



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10209/2/1

01 PRE-INSTALLATION PLAN

- 1

Verify the complete 10209/2/1 marking and its assigned Fail Safe Controller position before work.
- 2

Isolate the energy associated with FSC I/O rack before disconnecting 10209/2/1.
- 3

Protect the 10209/2/1 connectors and electronic assembly using approved ESD controls.
- 4

Record the as-found 24 Vdc field supply connections and configured assignment before replacement.
- 5

Confirm A9/C21 keyed position matches the approved installation record for 10209/2/1.

MATCHED HARDWARE

- FSC I/O rack
- 24 Vdc field supply
- A9/C21 keyed position
- Protected resistive or inductive load

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	10209/2/1 / 10209/2/1 recorded
Physical interface	FSC I/O rack
Companion check	24 Vdc field supply
Functional proof	Switches sixteen low-power 24 Vdc loads
Application test	Low-power trip indication

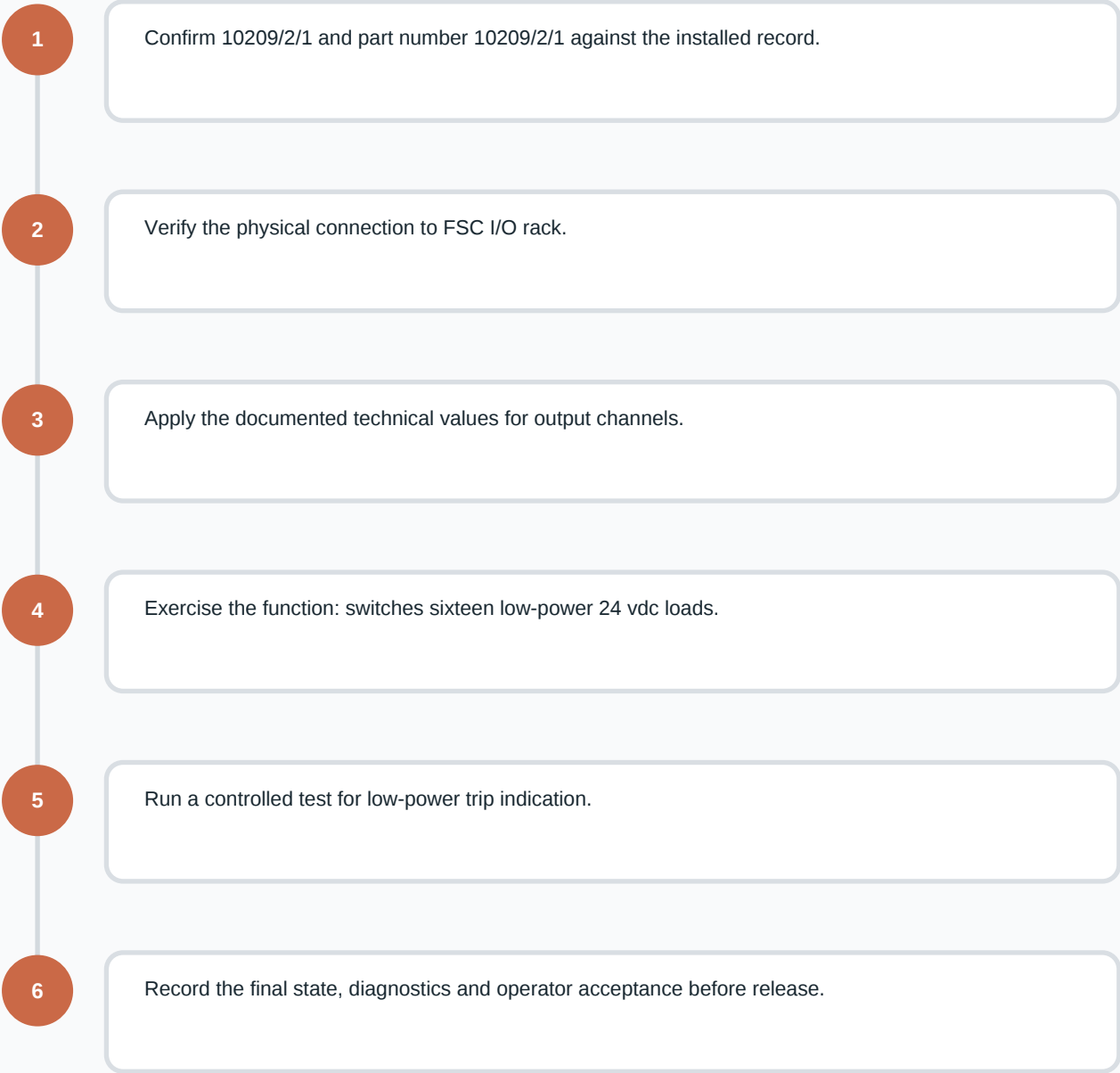
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Output channels	16
Output supply	24 Vdc
Rated output current	100 mA maximum
Load power	2.5 W maximum
Output type	Solid-state source
Short-circuit protection	Yes
Lamp load	50 mA; 1.2 W maximum
Load capacitance	1 uF maximum
Voltage drop	<1.2 Vdc at 100 mA
Off-state current	<0.1 mA
Watchdog input	4 mA
Module size	4 TE; 3 HE
5 Vdc current	35 mA
24 Vdc current	85 mA without load
Key coding	A9; C21

FIELD NOTE

Check A9/C21 keying and the external load against the channel limit, confirm suppression for inductive circuits and prove watchdog de-energization during the safety test.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	10209/2/1 / 10209/2/1 recorded
Physical interface	FSC I/O rack
Companion check	24 Vdc field supply
Functional proof	Switches sixteen low-power 24 Vdc loads
Application test	Low-power trip indication

04 RETURN-TO-SERVICE RECORD

- ☐ Restore 10209/2/1 under controlled conditions and review its model-specific diagnostics.
- ☐ Complete a documented functional test for low-power trip indication before release.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
10002/1/2	FSC control and I/O system module	Open product page
10005/1/1	FSC system module	Open product page
10012/1/2	FSC system interface module	Open product page
10014/F/F	FSC dual RS-232 communication module	Open product page

SOURCE IDENTIFIERS

Honeywell Fail Safe Controller Hardware Manual
FS02500 software 3.00

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