9761-210

16-Point 0-5 V Current Input Panel

CONTROLLED ENGINEERING COPY

Verify redundant transmitter supplies, 180-ohm feed resistors, 250-ohm conversion shunts, loop polarity, and scaling before enabling channels connected through 9761-210.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	9761-210
Manufacturer part	9761-210
Hardware type	Current input
System family	Tricon v9-v10 analog input termination

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

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

01 PRE-INSTALLATION PLAN

1. Verify 9761-210 and the connected 0-5 V input module before disturbing loops.
2. Place affected transmitter-based safety functions in the approved maintenance state.
3. Isolate both 24 VDC supplies and record loop polarity plus channel assignment.
4. Confirm the 180-ohm series feed and 250-ohm input shunt remain intact.
5. Keep the two panels correctly labeled when serving a thirty-two-point module.

MATCHED HARDWARE

- 3700, 3700A, or 3721 analog-input module
- 2770H HART interface module
- 4000103-510 I/O cable
- redundant 24 VDC transmitter supplies

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	9761-210 / 9761-210 recorded
Physical interface	3700, 3700A, or 3721 analog-input module
Companion check	2770H HART interface module
Functional proof	Supplies and terminates sixteen field current loops
Application test	Four-to-twenty-milliamp safety transmitter termination

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Panel type	Current input
Input points	16
Voltage conversion	0 to 5 VDC
Positive-terminal resistor	180 Ohm series
Input shunt	250 Ohm precision
Power outputs	16
Current inputs	16
Power sources	Redundant 24 VDC
Power combining	Diode ORing
Compatible modules	2770H; 3700; 3700A; 3721
Panels for 32-point module	2
Panel width	4.5 in (11.43 cm)
Panel length	5 in (12.7 cm)
Panel height	4.25 in (10.795 cm)

FIELD NOTE

Verify redundant transmitter supplies, 180-ohm feed resistors, 250-ohm conversion shunts, loop polarity, and scaling before enabling channels connected through 9761-210.

03 COMMISSIONING WORKFLOW

1. Confirm 9761-210 and part number 9761-210 against the installed record.
2. Verify the physical connection to 3700, 3700A, or 3721 analog-input module.
3. Apply the documented technical values for panel type.
4. Exercise the function: supplies and terminates sixteen field current loops.
5. Run a controlled test for four-to-twenty-milliamp safety transmitter termination.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	9761-210 / 9761-210 recorded
Physical interface	3700, 3700A, or 3721 analog-input module
Companion check	2770H HART interface module
Functional proof	Supplies and terminates sixteen field current loops
Application test	Four-to-twenty-milliamp safety transmitter termination

04 RETURN-TO-SERVICE RECORD

- [ ] Preserve shield grounding and the documented HART interface arrangement where used.
- [ ] Measure transmitter supply and converted voltage at representative current values.
- [ ] Prove channel scaling, diagnostics, alarms, and trip logic 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
Triconex 3504E	High-Density Digital Input Module	**Open product page**
Triconex 3008	Main Processor Module	**Open product page**
Triconex 4210	Remote Extender Module Set	**Open product page**
Triconex 4119A	Enhanced Intelligent Communication Module	**Open product page**

SOURCE IDENTIFIERS

Field Terminations Guide for Tricon v9-v10 Systems

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WHATSAPP / PHONE +86 180 3023 5313

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WEBSITE www.apterpower.com