

INDUSTRIAL AUTOMATION PRODUCT

9761-210

16-Point 0-5 V Current Input Panel

Triconex 9761-210 is a sixteen-point current-input termination panel. It powers field transmitters and converts their current into 0-5 V signals for compatible Tricon modules.

IDENTITY	VERIFIED VALUE
Manufacturer	Triconex
System family	Tricon v9-v10 analog input termination
Part number	9761-210
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

Technical values below are limited to the named Triconex product record.

PARAMETER	TECHNICAL 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)
ETA number	3000510-510
Associated cable	4000103-510

3

System Role and Architecture

Triconex 9761-210 is a sixteen-point current-input termination panel. It powers field transmitters and converts their current into 0-5 V signals for compatible Tricon modules.

FUNCTION 1

Supplies and terminates sixteen field current loops

FUNCTION 2

Uses precision 250-ohm shunts to convert loop current into 0-5 V inputs

FUNCTION 3

Combines two 24 VDC transmitter supplies through diode ORing

FUNCTION 4

Pairs two panels with a thirty-two-point analog or HART input module

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3700, 3700A, or 3721 analog-input module
Companion hardware	2770H HART interface module
Field connection	4000103-510 I/O cable
Primary system function	Supplies and terminates sixteen field current loops
Controlled acceptance duty	Four-to-twenty-milliamp safety transmitter termination

4

Applications and Engineering Context

Four-to-twenty-milliamp safety transmitter termination

Supplies and terminates sixteen field current loops

HART input-interface connection

Uses precision 250-ohm shunts to convert loop current into 0-5 V inputs

Redundant transmitter-power distribution

Combines two 24 VDC transmitter supplies through diode ORing

Thirty-two-point analog loop split-panel wiring

Pairs two panels with a thirty-two-point analog or HART input module

TECHNICAL NOTE

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

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	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

5

Engineering Precautions

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.

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

MANUFACTURER SOURCE RECORD

Field Terminations Guide for Tricon v9-v10 Systems

9700052-018, February 2009

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

