

9771-210

16-Point User-Configurable Current Input Panel

Triconex 9771-210 is a sixteen-point user-configurable current-input termination panel. It powers and converts field current loops for compatible Tricon analog input modules.

PRODUCT SNAPSHOT

BRAND

Triconex

FAMILY

Tricon v9-v10 analog input termination

PART

9771-210

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Triconex 9771-210 is a sixteen-point user-configurable current-input termination panel. It powers and converts field current loops for compatible Tricon analog input modules.

1 Converts sixteen field current loops into precision voltage inputs through 250-ohm shunts

2 Supplies current transmitters from diode-ORed redundant 24 VDC sources

3 Uses removable point jumpers to support approved transmitter-sharing arrangements

4 Adapts W17 configuration to the selected 3700A, 3703E, or 3721 input module

SYSTEM COMPONENTS

3700, 3700A, 3703E, or 3721 analog-input module

4000103-510 I/O cable

redundant 24 VDC transmitter supplies

4-20 mA transmitters and shielded loop wiring

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

TECHNICAL DATA

PARAMETER	VALUE
Panel type	Current input; user-configurable
Input points	16
Supported module ranges	0-5 VDC; 0-10 VDC; -5 to +5 VDC
Field signal example	4-20 mA
Positive-terminal resistor	180 Ohm series
Input shunt	250 Ohm precision
Current conversion	0-5 VDC
Power sources	Redundant 24 VDC
Power combining	Diode ORing

PARAMETER	VALUE
Compatible modules	3700; 3700A; 3703E; 3721
Panels for 32-point module	2
W17 with 3700A / 3721	Installed
W17 for extended 3703E common mode	Removed
Panel width	4.5 in (11.43 cm)
Panel length	5.729 in (14.552 cm)
Panel height	4.25 in (10.795 cm)
ETA number	3000656-210
Associated cable	4000103-510

TECHNICAL NOTE

Set W17 and point jumpers for the exact input module and sharing design, then verify transmitter supply, shunt conversion, loop scaling, and safety/control segregation.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Redundant-powered process transmitter termination

Converts sixteen field current loops into precision voltage inputs through 250-ohm shunts

Shared transmitter interface with an external DCS

Supplies current transmitters from diode-ORed redundant 24 VDC sources

3703E extended common-mode configuration

Uses removable point jumpers to support approved transmitter-sharing arrangements

Thirty-two-point analog-input split-panel wiring

Adapts W17 configuration to the selected 3700A, 3703E, or 3721 input module

PRODUCT PRECAUTIONS

- 1 Verify 9771-210, the input-module model, and the approved jumper drawing before work.
- 2 Isolate both 24 VDC transmitter supplies and the affected safety input functions.
- 3 Record every W point jumper and W17 position before removing the panel.
- 4 Retain W17 for 3700A or 3721 service; apply the documented 3703E rule when extended common mode is required.
- 5 Do not share a transmitter with another system unless the safety/control segregation review permits it.
- 6 Preserve loop polarity, 250-ohm shunt path, and shield-ground practice.
- 7 Measure transmitter supply and converted input voltage before enabling the channel.
- 8 Prove scaling, alarm action, and any shared-system indication under controlled conditions.

ENGINEER FAQ

Q1 How is 250-ohm current conversion handled during a 9771-210 replacement?

Record the installed state first, isolate the associated process function, reproduce only the approved model-specific arrangement, and verify it before energization.

Q3 Can 9771-210 be substituted for a similar Triconex model without a configuration review?

No. Confirm the exact model, companion hardware, signal execution, system version, and approved configuration before any substitution.

Q5 Which installed hardware must be matched before fitting 9771-210?

Match 9771-210 to 3700, 3700A, 3703E, or 3721 analog-input module and 4000103-510 I/O cable, then confirm the complete physical marking and assigned Tricon v9-v10 analog input termination position.

Q7 What check is required for transmitter sharing and segregation when commissioning 9771-210?

Apply a controlled signal or command within the documented range and compare the field result, controller indication, and product diagnostics before normal operation.

Q2 Which diagnostics should be reviewed after installing 9771-210?

Review the applicable point, module, power, communication, or load indicators for 9771-210, then confirm the intended role: converts sixteen field current loops into precision voltage inputs through 250-ohm shunts.

Q4 What evidence should be retained after redundant 24 VDC diode-OR supply testing on 9771-210?

Retain the full 9771-210 identity, as-left connections or settings, final diagnostics, measured functional-test result, and authorization to return the affected process function to service.

Q6 How should an engineer verify W17 jumper by analog-input module for 9771-210?

Use the approved connection drawing and the model-specific values in Field Terminations Guide for Tricon v9-v10 Systems; preserve the as-found terminal, connector, polarity, shield, and channel identity.

Q8 Which installation error is most important to prevent on 9771-210?

Do not interchange 9771-210 with an adjacent execution or alter its matched 3700, 3700A, 3703E, or 3721 analog-input module; the exact electrical, channel, and connector arrangement must be retained.