

9662-610

16-Point 24 VDC Digital Output Termination Panel

Triconex 9662-610 is a commoned sixteen-point 24 VDC digital output termination panel. It connects self-protected Tricon output modules to field loads.

PRODUCT SNAPSHOT

BRAND

Triconex

FAMILY

Tricon v9-v10 digital output termination

PART

9662-610

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PRODUCT OVERVIEW

Triconex 9662-610 is a commoned sixteen-point 24 VDC digital output termination panel. It connects self-protected Tricon output modules to field loads.

1

Terminates sixteen 24 VDC sourced digital-output load circuits

2

Commons the PWR+ and PWR- field-supply terminals across the panel

3

Supports selected self-protected TMR and dual digital-output modules

4

Provides the numbered field interface for one half of a thirty-two-point module

SYSTEM COMPONENTS

3624 or 3625 TMR digital-output module

3664 or 3674 dual digital-output module

4000094-310 I/O cable

24 VDC load supply and protected field loads

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 3664	Dual Digital Output Module	Open product page
Triconex 3008	Main Processor Module	Open product page
Triconex 8312	230 VAC Power Module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Panel type	Commoned
Nominal field voltage	24 VDC
Load terminals	16
Power terminals	Commoned PWR+ / PWR-
Maximum total current	16 A
Total current with 3625	10 A maximum per panel
Compatible TMR modules	3624; 3625
Compatible dual modules	3664; 3674

PARAMETER	VALUE
3624 points	16
3625 / 3664 / 3674 points	32
Protection requirement	Self-protected modules only
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	3000520-390
Associated cable	4000094-310

TECHNICAL NOTE

Use 9662-610 only with the listed self-protected modules, observe the panel current limit, and install the required supervised-point load before validating LOAD/FUSE diagnostics.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Commoned solenoid-output termination

Terminates sixteen 24 VDC sourced digital-output load circuits

Thirty-two-point module split-panel wiring

Commons the PWR+ and PWR- field-supply terminals across the panel

Dual digital-output field interface

Supports selected self-protected TMR and dual digital-output modules

Low-density DO upgrade-panel integration

Provides the numbered field interface for one half of a thirty-two-point module

PRODUCT PRECAUTIONS

- 1 Verify the 9662-610 panel label and module pairing before disconnecting any load.
- 2 Isolate commoned 24 VDC power and prove the field loads de-energized.
- 3 For a thirty-two-point module, identify whether the panel carries channels 1-16 or 17-32.
- 4 Do not use 9662-610 with a digital-output module that is not self-protected.
- 5 Keep total panel current within sixteen amperes and within ten amperes when paired with 3625.
- 6 Install the documented load or test resistor on supervised unused points.
- 7 Inspect the 4000094-310 cable and its backplane connector before energization.
- 8 Exercise each output and confirm commanded state, load current, and module diagnostics.

ENGINEER FAQ

Q1 What check is required for self-protected module compatibility when commissioning 9662-610?

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

Q3 How is supervised unused-point loading handled during a 9662-610 replacement?

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

Q5 Can 9662-610 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.

Q7 Which installed hardware must be matched before fitting 9662-610?

Match 9662-610 to 3624 or 3625 TMR digital-output module and 3664 or 3674 dual digital-output module, then confirm the complete physical marking and assigned Tricon v9-v10 digital output termination position.

Q2 Which installation error is most important to prevent on 9662-610?

Do not interchange 9662-610 with an adjacent execution or alter its matched 3624 or 3625 TMR digital-output module; the exact electrical, channel, and connector arrangement must be retained.

Q4 Which diagnostics should be reviewed after installing 9662-610?

Review the applicable point, module, power, communication, or load indicators for 9662-610, then confirm the intended role: terminates sixteen 24 vdc sourced digital-output load circuits.

Q6 What evidence should be retained after 1-16 versus 17-32 channel labeling testing on 9662-610?

Retain the full 9662-610 identity, as-left connections or settings, final diagnostics, measured functional-test result, and authorization to return the affected process function to service.

Q8 How should an engineer verify 3625 ten-amp panel limit for 9662-610?

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.