

9853-610

Eight-Point Basic Current Output Panel

Triconex 9853-610 is an eight-point basic current-output termination panel. It connects Tricon analog-output and HART-interface modules to powered 4-20 mA field loops.

PRODUCT SNAPSHOT

BRAND

Triconex

FAMILY

Tricon v9-v10 analog output termination

PART

9853-610

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 9853-610 is an eight-point basic current-output termination panel. It connects Tricon analog-output and HART-interface modules to powered 4-20 mA field loops.

- 1

Terminates eight 4-20 mA current outputs and their return conductors
- 2

Accepts redundant 24 VDC loop-power connections for analog output service
- 3

Interfaces 3805E/3805H output modules or a 2870H HART output interface
- 4

Requires a shorting jumper on every unused output point

SYSTEM COMPONENTS

- 3805E or 3805H analog-output module
- 2870H HART analog-output interface
- 4000098-510 I/O cable
- redundant 24 VDC loop-power sources

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 3664	Dual Digital Output Module	Open product page
Triconex 9662-610	24 VDC Digital Output Termination Panel	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	Current output; basic
Output points	8
Current output terminals	8 OUT
Current return terminals	8 RTN
Loop-power sources	Redundant 24 VDC
Compatible AO modules	3805E; 3805H
Compatible HART module	2870H
Module signal	4 to 20 mA

PARAMETER	VALUE
Module return	Commoned; DC coupled
Panel width	3 in (7.62 cm)
Panel length	5 in (12.7 cm)
Panel height	4.25 in (10.795 cm)
ETA number	3000400-530
Associated cable	4000098-510
Cable minimum bend radius	6.25 in (15.875 cm)

TECHNICAL NOTE

Retain at least one common RTN, install a shorting jumper on each unused point, preserve redundant loop-power polarity, and validate output current plus HART communication where configured.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Eight-loop control-valve output termination

Terminates eight 4-20 mA current outputs and their return conductors

HART analog-output field interface

Accepts redundant 24 VDC loop-power connections for analog output service

Redundant loop-power cabinet wiring

Interfaces 3805E/3805H output modules or a 2870H HART output interface

Analog output panel replacement and loop test

Requires a shorting jumper on every unused output point

PRODUCT PRECAUTIONS

- 1 Verify 9853-610 and the 3805 or 2870H module assignment before field work.
- 2 Place every connected final element in its approved safe maintenance state.
- 3 Isolate both 24 VDC loop-power feeds and record polarity plus return connections.
- 4 Maintain at least one RTN connection and preserve the commoned-return arrangement.
- 5 Install a shorting jumper on every unused output point.
- 6 Maintain the 4000098-510 cable bend radius and secure both connectors.
- 7 Command representative currents and measure them at the field loop.
- 8 Verify HART communication, LOAD status, and final process response before service.

ENGINEER FAQ

Q1 What check is required for common RTN requirement when commissioning 9853-610?

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 3805E/3805H versus 2870H pairing handled during a 9853-610 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 9853-610 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 9853-610?

Match 9853-610 to 3805E or 3805H analog-output module and 2870H HART analog-output interface, then confirm the complete physical marking and assigned Tricon v9-v10 analog output termination position.

Q2 Which installation error is most important to prevent on 9853-610?

Do not interchange 9853-610 with an adjacent execution or alter its matched 3805E or 3805H analog-output module; the exact electrical, channel, and connector arrangement must be retained.

Q4 Which diagnostics should be reviewed after installing 9853-610?

Review the applicable point, module, power, communication, or load indicators for 9853-610, then confirm the intended role: terminates eight 4-20 ma current outputs and their return conductors.

Q6 What evidence should be retained after redundant loop-power validation testing on 9853-610?

Retain the full 9853-610 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 unused-point shorting jumpers for 9853-610?

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.