9853-610

Triconex Eight-Point Basic Current-Output Termination Panel

Product scope

- Provides eight OUT terminals and eight RTN terminals for current-output field wiring.
- Accepts redundant 24 VDC loop-power connections on the documented panel terminals.
- Is compatible with 3805E/H analog output modules and the 2870H HART output interface.
- Requires at least one RTN connection and a shorting jumper on every unused point.

Manufacturer source

Field Terminations Guide for Tricon v9–v10 Systems, pages 236–239

The enclosed manufacturer pages show the exact 9853-610 specifications, compatible modules, field-wiring requirements and simplified connection schematics.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	9853-610	

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This table describes specifications for the voltage-to-current converter.

Table 142 Voltage-to-Current Converter Specifications

Feature	Specification
Voltage	24 VDC, nominal (20–28 VDC maximum range)
Current	20 mA quiescent, with V_{supply} = 24 V, V_{in} = 0, R_L = 0, I_s = 4 mA
Input impedance	1 MW Differential Mode 850 kΩ Common Mode
Input voltage range for 4–20 mA out	0–20 V
Maximum input voltage, either terminal with respect to power supply common	± 100 V continuous ± 200 V pulsed, 0.5 second, 2% duty cycle
Differential mode frequency response	–6 dB/octave from 1 kHz to 8 kHz –12 dB/octave above 8 kHz
Common mode frequency response	–12 dB/octave above 8 kHz
Output range	4–20 mA for 0–20 V input
Maximum load resistance	750 W with V_{supply} = 24 V
Offset and linearity	± 0.1 mA maximum over entire range
Power supply sensitivity	Output varies less than ± 0.1 mA over entire range, into 500 Ω load, for 20 V < V_{supply} < 28 V

9853-610 (current output, basic, 8 pts.)

Termination panel 9853–610 is compatible with 4–20mA output modules and HART analog output interface modules. Each panel has:

- 8 current output terminals (OUT)
- 8 current return terminals (RTN)
- Terminals for connecting redundant 24 VDC power supplies

Specifications

This table describes specifications for 9853–610.

Table 143 Specifications for Term Panel 9853-610

Feature	Description
Panel type	Current output, basic
Points	8

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Compatible Modules

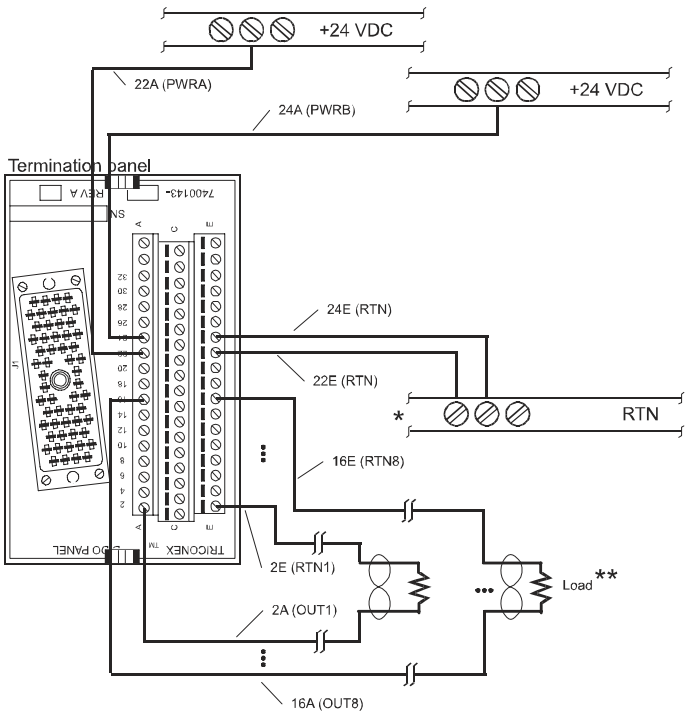
This table describes analog output modules compatible with 9853–610.

Table 144 Modules Compatible with 9853-610

Module Part Number	Points per Module	Module Description
2870H	8	HART analog output interface module
3805E/H	8	4–20 mA, commoned-return, DC-coupled, TMR

Field Wiring Diagrams

This figure illustrates how to connect an 8-point analog output module or HART analog output interface module and a 9853–610 to the field (1 of 8 module points shown).



* One RTN connection is required. More than one is okay.
** A shorting jumper must be connected to each unused point.

Figure 191 Field Wiring for 9853-610 with a 3805E or 3805H AO Module or 2870H HART AO Interface Module

Note For additional instructions on installing HART Interface Modules, see the *Planning and Installation Guide for Tricon v9–v10 Systems*.

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Simplified Schematics

This is a simplified schematic of a typical 8-point commoned-return analog output module with a basic current output panel (1 of 8 module points shown).

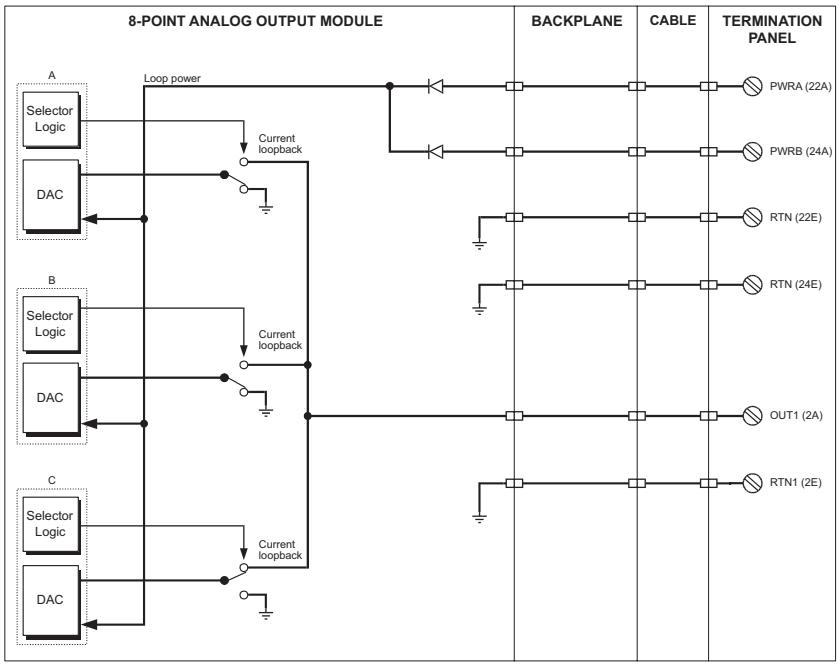


Figure 192 Simplified Schematic of a 3805E or 3805H AO Module with a 9853-610 Panel

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This is a simplified schematic of a Model 2870H HART Analog Output Interface Module with a basic current output panel (1 of 8 module points shown).

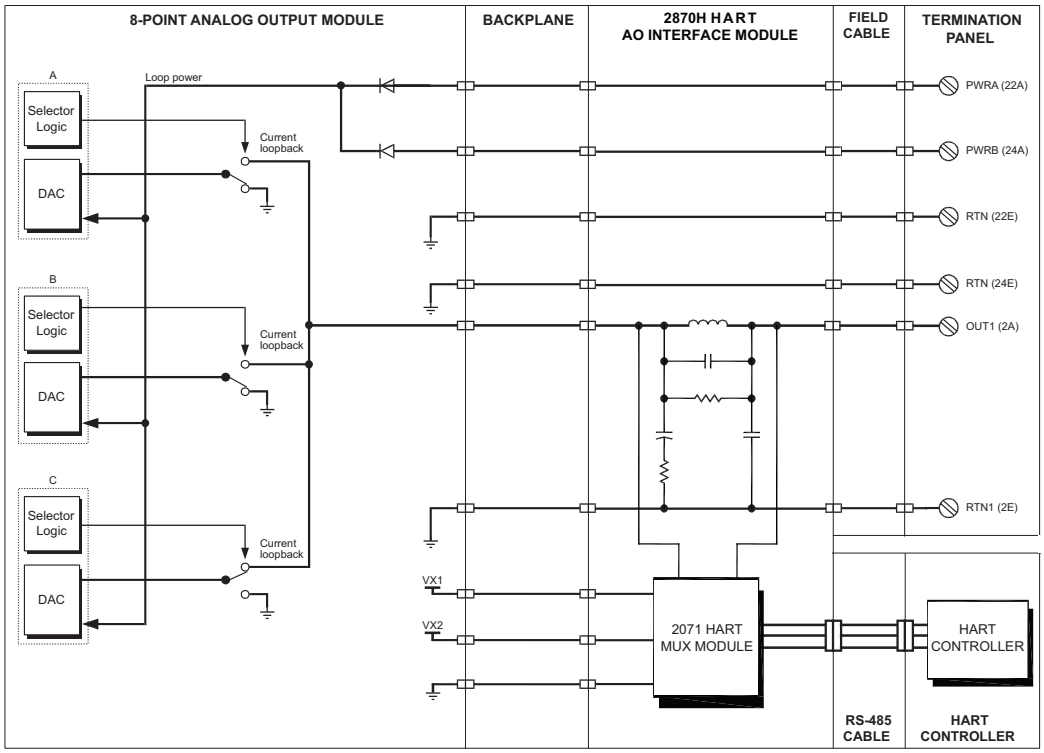


Figure 193 Simplified Schematic of a 2870H HART AO Interface Module with a 3805E or 3805H AO Module and a 9853-610 Panel

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