

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

TRICONEX

9853-610

ANALOG OUTPUT TERMINATION PANEL

Used with the applicable Triconex safety system configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Tricon Technical Product Guide

Product Specifications

Model Number	Description	See This Standard Model
3805HC	AO, 4–20 mA, current loop, DC-coupled, TMR, 8 pts.	3805H
3505EC	DI, 24 VDC, low threshold, 32 pts.	3505E
3503EC	DI, 24 VAC/VDC, commoned in groups of 8, self-test, TMR, 32 pts.	3503E
3564C	DI, 0–5 VDC, single-ended, high-density, TMR, 64 pts.	3564
3664C	DO, 24 VDC, commoned, opto-isolated, self-protected, dual, 32 pts.	3664
3625C	DO, 24 VDC, supervised/non-supervised, commoned, TMR, 32 pts.	3625
3625AC	DO, 24 VDC, supervised/non-supervised, commoned, TMR, 32 pts.	3625A
3511C	Pulse Input, differential, AC-coupled, TMR, 8 pts.	3511
3636TC	Relay Output, normally open, non-triplicated, 32 pts.	3636T
External Termination Panels and FT4 Interface Cables^b		
9563-810FC	Term panel with cable 4000187-310; for use with 3503EC and 3505EC	9563-810F
9566-710FC	Term panel with cable 4000187-310; for use with 3564C	9566-710F
9662-610FC	Term panel with cable 4000188-310; for use with 3625C, 3625AC, and 3664C	9662-610F
9668-110FC	Term panel with cable 4000188-110 ^c ; for use with 3636TC	9668-110F
9753-110FC	Term panel with cable 4000189-510; for use with 3511C	9753-110F
9765-210FC	Term panel with cable 4000206-510; for use with 3720C	9765-210F
9771-210FC	Term panel with cable 4000189-510; for use with 3700AC, 3703EC, and 3721C	9771-210F
9853-610FC	Term panel with cable 4000190-510; for use with 3805HC	9853-610F

a. For information about modules and chassis, see the *Planning and Installation Guide for Tricon v9–v10 Systems*.

b. For information about external termination panels and interface cables, see the *Field Terminations Guide for Tricon v9–v10 Systems*.

c. A low smoke zero halogen (LSZH) cable is also certified for use with the external termination assembly (ETA) that is included with model 9668-110FC. If you need the LSZH cable, order ETA 3000590-110C and LSZH cable 4000141-110, separately.

f-protected,	9662-610F	n/a	9653-610F	9671-610F	n/a	9101-010F	n/a	9671-810F ^b
	Commoned Term Panels	Non-Common Term Panels	Basic Term Panels	Nonincendive Term Panels	RG 1:180 Term Panels	Fanned-out Cables	Bypass Panels	ERT Loop-Back Cables/Panels
n/a	n/a	n/a	9853-610F	9861-610F	9860-610F	n/a	n/a	n/a
n/a	n/a	n/a	9853-610F	9861-610F	9860-610F	n/a	n/a	n/a
ts,	n/a	n/a	9863-710F (special panel)	n/a	n/a	n/a	n/a	n/a
mA outputs	9881-810F	n/a	n/a	9871-810F	n/a	n/a	n/a	n/a
	Upscale	Downscale	Basic Term Panels	Nonincendive Term Panels	RG 1:180 Term Panels	Fanned-out Cables	Bypass Panels	ERT Loop-Back Cables/Panels
ype J, K, T,	9766-210F	9766-510F	n/a	9784-610F, upscale 9785-610F, downscale	n/a	n/a	n/a	n/a
ype E, J, K,	9765-610F	n/a	n/a	9786-110F	9782-110F	n/a	n/a	n/a
	3-Wire 4-20 mA	Voltage	2-Wire 4-20 mA	Nonincendive Term Panels	RG 1:180 Term Panels	Basic		RTD/TC/AI
tial,	n/a	9763-810F	9761-210F, 0-5 V 9771-210F, 0-5 V	9791-610F, current input 9792-610F, 4-20 mA, 0-5 V, 9787-110F, 16 VDC-56 VDC field voltage input 9783-110F, voltage input 9764-310F, RTD/TC/AI input ^e	9790-610F, current input 9792-610F, 4-20 mA, 0-5 V, 16 VDC-56 VDC field 9795-610F, 4-20 mA, 0-10 V 9783-110F, voltage input	9753-110F, 0-5 V		9764-310F ^c
n/a	n/a	n/a	9761-210F, 0-5 V 9771-210F, 0-5 V	9791-610F, current input	9790-610F, current input	n/a		n/a
ntial, 32 pts,	n/a	9763-810F	9761-410F	n/a	n/a	9753-110F, 0-10 V		n/a
olated, 16	n/a	9763-810F	9762-210F, 0-5 V 9762-410F, 0-10 V 9771-210F, 0-5 V	9791-610F, current input 9787-110F, voltage input	9790-610F, 4-20 mA, 0-5 V 9792-610F, 4-20 mA, 0-5 V, 16 VDC-56 VDC field 9795-610F, 4-20 mA, 0-10 V 9783-110F, voltage input	9753-110F, 0-5/0-10 V		n/a
nded, 64 pts,	9765-210F, 0-5 V	n/a	9760-210F, 0-5 V 9760-410F, 0-10 V	9789-610F, 4-20 mA	n/a	9750-210F, 4-20 mA 9750-810F, 0-5/0-10 V		n/a
o +5 VDC,	n/a	9763-810F	9761-210F, 0-5 V 9761-410F, 0-10 V 9771-210F, 0-5 V	9791-610F, current input 9787-110F, voltage input	9790-610F, 4-20 mA, 0-5 V 9792-610F, 4-20 mA, 0-5 V, 16 VDC-56 VDC field 9795-610F, 4-20 mA, 0-10 V 9783-110F, voltage input 9764-310F, RTD/TC/AI input ^e	9753-110F, 0-5 V		9764-310F ^c

: illuminate when point fuse is removed. Each point is commoned.
 : illuminate when point fuse is removed. Each point is self-protected and commoned.
 d separately. A total of 16 is required for each termination panel.
 ation 11.31 software.

Part Number Cross-Reference—ETPs *(continued)*

Base Model #	ETA	FT4 Cable	Z Cable	LSZH Cable	FT1 Cable (Old)
9762-410	3000510-580	4000189-510	4000191-510	4000142-510	4000103-510
9763-810	3000580-110	4000189-510	4000191-510	4000142-510	4000103-510
9764-310	3000712-200	4000189-510	4000191-510	4000142-510	4000103-510
9765-210	3000475-520	4000206-510	4000207-510	n/a	4000093-510
9765-610	3000580-230	4000189-510	4000191-510	4000142-510	4000103-510
9766-210	3000580-210	4000189-510	4000191-510	4000142-510	4000103-510
9766-510	3000580-220	4000189-510	4000191-510	4000142-510	4000103-510
9771-210	3000656-210	4000189-510	4000191-510	4000142-510	4000103-510
9782-110	3000767-280	4000189-510	4000191-510	4000142-510	4000103-510
9783-110	3000767-160	4000189-510	4000191-510	4000142-510	4000103-510
9784-610	3000767-220	4000197-510	4000201-510	n/a	4000164-510
9785-610	3000767-210	4000197-510	4000201-510	n/a	4000164-510
9786-110	3000767-230	4000197-510	4000201-510	n/a	4000164-510
9787-110	3000767-110	4000197-510	4000201-510	n/a	4000164-510
9789-610	3000768-510	4000209-510	4000208-510	n/a	4000165-510
9790-610	3000771-560	4000189-510	4000191-510	4000142-510	4000103-510
9791-610	3000771-510	4000197-510	4000201-510	4000142-510	4000164-510
9792-610	3000772-660	4000191-510	4000201-510	4000142-510	4000103-510
9793-110	3000767-115	4000201-510	4000191-510	n/a	4000164-510
9794-110	3000767-165	4000189-510	4000191-510	4000142-510	4000103-510
9795-610	3000771-460	4000191-510	4000194-510	4000142-510	4000103-510
9853-610	3000400-530	4000190-510	4000194-510	4000157-510	4000098-510
9860-610	3000770-610	4000194-510	4000202-510	4000157-510	4000098-510
9861-610	3000770-560	4000202-510	4000194-510	n/a	4000163-510
9863-710	1600049-010 1600049-100	4000194-510	4000202-510	4000157-510	4000098-510
9871-810	3000818-560	4000202-510	4000194-510	n/a	4000163-510
9881-810	3000818-660	4000194-510	4000192-110	4000157-510	4000098-510