# ICS Triplex T9882

## AADvance Dual Analog Output Termination Assembly

ICS Triplex T9882 is the dual analog-output termination assembly for an AADvance system. T9882 provides the physical field-to-module connections for redundant analog output modules; it does not generate or process the output signal on its own.



## Technical Specifications

| | |
|---|---|
| **Product Identity** | |
| Manufacturer | Rockwell Automation, Inc. |
| Model | T9882 |
| Platform | AADvance |
| Product type | Analog output termination assembly |
| Dimensions, height × width | 132 × 84 mm |
| Base system | AADvance I/O base arrangement |
| **Functional Configuration** | |
| Redundancy arrangement | Dual |
| Field connections | 8 |
| Output modules supported | 2 |
| Compatible output family | AADvance T9481 / T9482 |
| Maximum conductor cross-section | 1.31 mm² (16 AWG) |
| Conductor stripping length | 6 mm |
| **Performance & Power** | |
| Channel-isolation withstand | ±1.5 kV DC for 1 minute |
| **Environment** | |
| Installation enclosure | AADvance open-type assembly requires an enclosure with adequate cooling and access clearance |

Selected original manufacturer pages follow on pages 3–6.

## Compatibility & Selection Guide

**System compatibility.** Use T9882 with the approved AADvance T9481/T9482 analog-output arrangement and matching I/O base. These output modules use current-sink circuits; in dual operation the two modules share the demanded current. Confirm module pairing, application fail-state settings and field-loop design before substitution.

## Wiring & Installation Reference

### Analog-output field connections

**Field outputs.** 8 connections · Observe channel +/– terminal identities

**Output arrangement.** Two compatible modules · Current-sink loop arrangement

**Field wire.** Maximum 1.31 mm² / 16 AWG · Strip 6 mm

### Mounting and handling

**Check the module group.** Confirm the dual analog-output arrangement and compatible I/O base positions.

**Match the coding.** Fit the analog-output termination assembly with the correct coding pegs and terminal polarity.

**Verify loop behavior.** Check the field loop and application fail-state settings before returning the circuit to service.

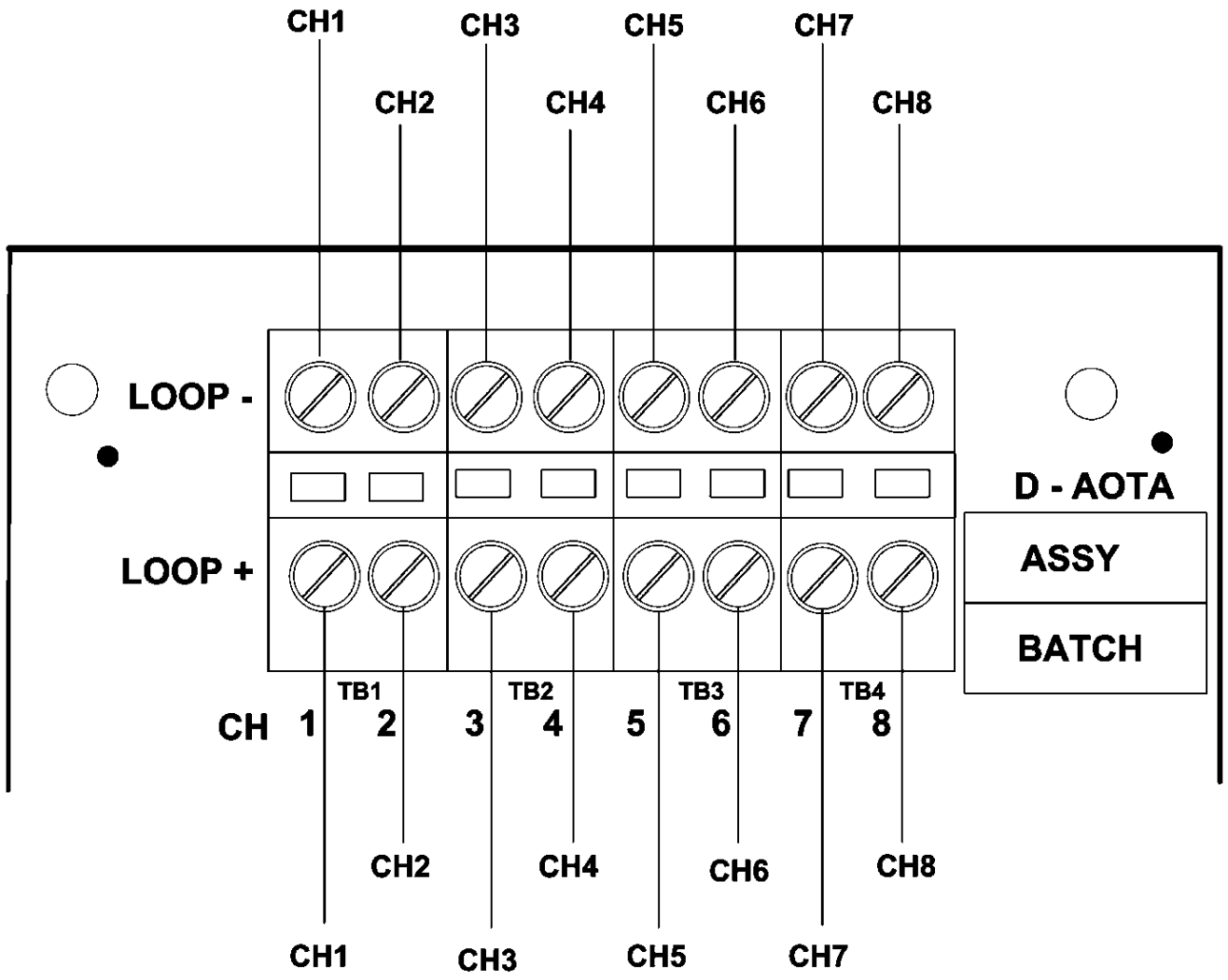
**Installation precautions.** The termination assembly does not replace the active output modules. Follow the system isolation requirements before changing field wiring. Use an appropriate enclosure and retain the AADvance cooling and access clearances.

View mounting diagram · PDF page 6 | Rockwell terminal diagram, original manual p. 111 · PDF page 3

Manufacturer sources: ICSTT-RM447N-EN-P, February 2021.

# Analog output terminal diagram

ICS Triplex T9882 | AADvance dual analog output, 8 field connections




Terminal screw torque: 0.5 N·m minimum (0.37 lbf·ft).



Open the Rockwell manual at page 111

# T9881/2 Analogue Output Termination Assembly Specification

**Table 34 - Analogue Output Module TA Specification**

| Attribute | Value |
|---|---|
| **Functional Characteristics** | |
| Field connections | 8; Wiring: Conductor cross section maximum 1.31 $mm^2$ (16 AWG); Stripping length 6mm (¼ in.) |
| Modules supported | T9881: One<br>T9882: Two |
| **Electrical Characteristics** | |
| Channel isolation | ± 1.5 kVdc maximum withstand for 1 minute |
| **Mechanical Specification** | |
| Dimensions (height x width) | |
| T9881 | 132 mm × 42 mm (5-¼ in. × 1-21/32 in.) |
| T9882 | 13 2mm × 84 mm (5-¼ in. × 3-5/16 in.) |
| Weight | |
| T9881 | 133 g (5 oz.) |
| T9882 | 260 g (10 oz.) |

# System Build

The AADvance® controller is supplied as an 'open' type equipment, prepared for installation on a wall or panel or inside a cabinet. This chapter gives an overview of a system construction to demonstrate how easy and simple the process can be; refer to the AADvance System Build Manual for more detailed information about constructing a system.

## Controller Mounting

An AADvance controller and I/O bases can be mounted using one of two methods:

- A pair of parallel TS35 DIN rails.
- Panel mounted using three holes on each base.

## Free Space around the Controller

Whichever mounting method is used the minimum depth from the rear mounting panel to the front panel and space around the base units are shown in the illustration, if you wish to mount the controller on DIN rails, increase this allowance by the increased depth of the DIN rails. The DIN rails must be TS35 rail, which is a 35mm × 7.5mm standard symmetric rail.

You must have sufficient free space around the base units to allow for the following:

- Space above, to adjust and install field wiring.
- Space below, to let modules fit and to be able to hold a module during removal.
- Space to the right of the last base unit in the row, to move an I/O base unit during assembly or if you are installing a new base unit.

If an expansion cable is to connect to the left-most base unit, the controller also needs space to the left, to fit the expansion cable adapter.

This illustration shows the minimum recommended clearances for a flat panel or DIN rail mounting.

