

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

AO 3481

TMR analog output module

[illegible]

PRODUCT	AO 3481
FAMILY	Triconex safety system
FUNCTION	TMR analog output module
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from Triconex documentation. This guide supplements the complete manufacturer manual and site procedure.

01

CONFIRM THE ORDERED CONFIGURATION

Module Type	TMR analog output module
Output Points	4 commoned-return channels
Controlled Output Range	4–20 mA
Over-range Output	0–22 mA
Zero Output Capability	0 mA step below 2 mA
Output Accuracy	Below 0.25% of 0–22 mA FSR

02

PREPARATION AND CONNECTION

- Confirm the complete AO 3481 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

72 Input/Output Modules

Model 3481 Analog Output Module Specifications

Feature	Specification
Points	4, commoned-return, DC-coupled
Output current range	4–20 mA output, controlled 0–22 mA over-range 0 mA output capability (step function <2 mA)
Output accuracy	<0.25% (in range of 4–20 mA) of FSR (0–22 mA), from 0° C to 70° C (32° F to 158° F)
Type	TMR
Resolution	12 bits
Diagnostic	Forced-switch diagnostic (FSD)
External loop power (reverse voltage-protected)	32 V DC, maximum 24 V DC, nominal
Output loop power requirements for specified load	300 Ω @ >16 V DC (1 A minimum) 500 Ω @ >20 V DC (1 A minimum) 700 Ω @ >24 V DC (1 A minimum) 800 Ω @ >28 V DC (1 A minimum)
Over-range protection	36 V DC, continuous 0 V DC, continuous
Switch time on leg failure	1 ms, typical 3 ms, maximum
Functional-to-protective-earth isolation	500 V DC, minimum
Functional-to-functional-earth (logic) isolation	800 V DC, minimum

04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	Trident Planning Installation Guide
Product record	AO 3481
Manufacturer	Triconex
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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