

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

3401

TMR digital output module

Model 2017 Digital Output Module Specifications	
Features	Specifications
Power	16.5 watt/min
Rated output voltage	20 V AC
Operational output voltage	17.5 VAC AC
Rated output current	0.8 A DC
Maximum electronic torque load rating	4.5 VDC
Output operation	4-8 A, 48 V, and floating
Switching	4-8 A, 48 V, and floating
Capacity	1.5 A, 48 V, and floating
Field status	1.5 A of field power, remote power demand
Load-break device	1.5 A, 48 V, and floating
	0.5 VDC - 100 VAC
	0.5 VDC - 100 VAC
	0.5 VDC - 100 VAC
Endings to load (VDC rating)	< 10 A
Diagnostic: load operation	Not applicable
Diagnostic: load operation	Not applicable
Maximum single line	< 10 A
Maximum single line	Not applicable
On-line voltage drop	< 1 VDC, < 1.1 A
Maximum single line	Not applicable
Maximum operational peak loading	100 VDC, 100 A
Maximum operational peak loading	100 VDC, 100 A
Maximum operational peak loading	100 VDC, 100 A

PRODUCT	3401
FAMILY	Triconex safety system
FUNCTION	TMR digital 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 digital output module
Output Points	16 commoned channels
Nominal Output Voltage	24 V DC
Operational Voltage Range	15–30 V DC
Maximum Output Voltage	33 V DC
Maximum Reverse Voltage	–0.6 V DC

02

PREPARATION AND CONNECTION

- Confirm the complete 3401 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.

Model 3401 Digital Output Module Specifications

Feature	Specification
Points	16, commoned
Nominal output voltage	24 V DC
Operational voltage range	15–30 V DC
Absolute maximum output voltage	33 V DC
Absolute maximum reverse input voltage	–0.6 V DC
Output current	
Switching	<4.8 A, self-limiting 3 A, typical
Carry	>0.7 A, self-limiting 1.5 A, typical
Field alarms	Loss of field power, output point shorted On or Off
Loop-back thresholds	0–5 V DC = Off region 6–14 V DC = transition region 15–30 V DC = On region
Leakage to load (Off-state)	<1 mA
Diagnostic glitch duration	<2 ms, maximum 500 µs, typical
Diagnostic fault coverage	
Maximum toggle rate	>20 ms
Minimum toggle rate	Not applicable
On-state voltage drop	<1 V DC @ 1.5 A
Loop-back scan time	<1 ms for all 16 points
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	3401
Manufacturer	Triconex
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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