

Triconex 3601E

115 VAC TMR Digital Output Module

Manufacturer	Triconex
Model / order number	3601E
Product identification	115 VAC TMR Digital Output Module
System / family context	Tricon Systems

Verified scope

16 non-commoned TMR outputs; 80-155 VAC at 47-63 Hz; 2 A per point. The extract includes the model front panel and electrical table.

Engineering checks before replacement

- Verify individual AC field feeds, including unused points as specified.
- Check continuous current, surge demand and 3 A fast-acting fuses.
- Account for cable-dependent voltage drop and off-state leakage.
- Validate load response to the documented diagnostic glitch.

Original manufacturer source reference

Planning and Installation Guide for Tricon v9-v11 Systems, 9700077-019, June 2014. Original PDF pages 128, 129.

Open manufacturer document (hosted copy)

This cover is an independent Sales PLC reference, not a manufacturer-issued datasheet. The following manufacturer pages retain their original text, layout and page numbering.

Request model verification or a quotation

info@amikon.cn | +86 18020776786

www.salesplcauto.com

This figure shows the front panels of Models 3601E and 3601T.

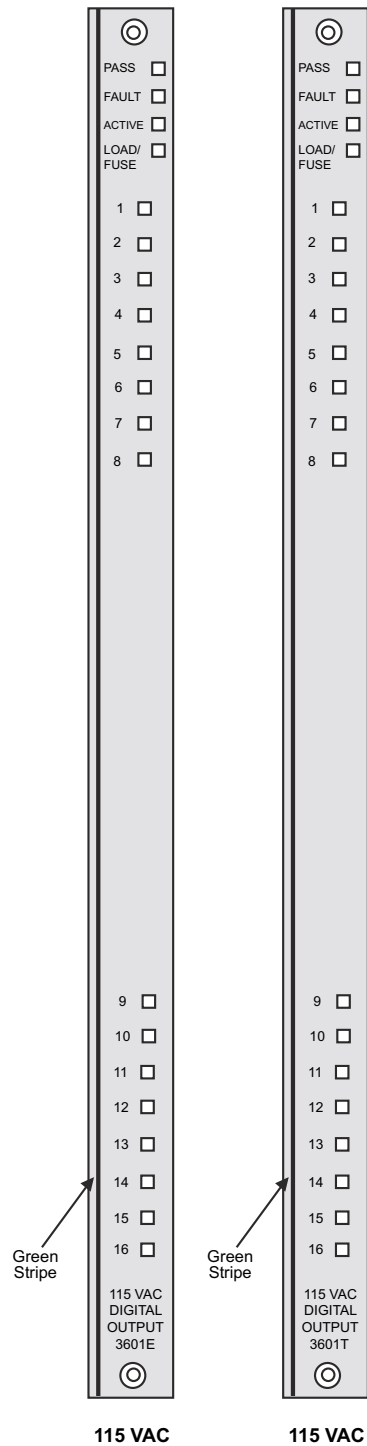


Figure 44 3601E and 3601T Front Panels

3601E and 3601T Specifications

This table lists the specifications for Models 3601E and 3601T, which are 16-point, opto-isolated TMR Digital Output Modules with an nominal voltage of 115 VAC. Model 3601T has a higher point-isolation minimum.

Table 37 3601E and 3601T Digital Output Specifications

Feature	Specification
Color code	Green
Number of output signals	16, non-commoned
Input frequency range	47-63 Hz
Voltage range	80-155 VAC
Logic power	< 10 watts
Current ratings, maximum	2 amps/ point, 12 amps surge/cycle
Leakage current to load @ 60 Hz	2 mA maximum @ 60 Hz
Leakage current to chassis @ 60 Hz	4 mA maximum @ 60 Hz
Fuses (on field termination module)	1 per output, 3 amps, fast-acting
Status indicator: On or Off state	1 per point
Status indicator: Module status	Pass, Fault, Active
Status indicator: Field alarm ^a	Load/fuse
Point isolation: 3601E	1,000 VAC minimum, 1,500 VDC minimum
Point isolation: 3601T	1,780 VAC minimum, 2,500 VDC minimum
Output diagnostic fault coverage:	
Maximum output toggle rate ^b	Every 100 ms plus one scan
Minimum output toggle rate	Every 24 months (manually toggled by the user) ^c
Diagnostic glitch duration ^d	1/2 AC cycle maximum
On-state voltage drop:	
At backplane	< 2 VAC typical @ 100mA, < 3 VAC maximum @ 2A
With external termination, 10-foot cable	< 3 VAC typical @ 100mA, < 5 VAC maximum @ 2A
With external termination, 99-foot cable	< 4 VAC typical @ 100mA, < 11 VAC maximum @ 2A
Inductive kick-back protection (reverse EMF)	Zero-crossing TRIACs

a. Power must be supplied to all points, including unused points on non-commoned panels.

b. The maximum output toggle rate enables proper operation of I/O diagnostics and detection of all normally detectable faults.

c. For more information, see [Toggling Field I/O Points on page 288](#).

d. Diagnostic glitching can be disabled by using the OVD disable function.