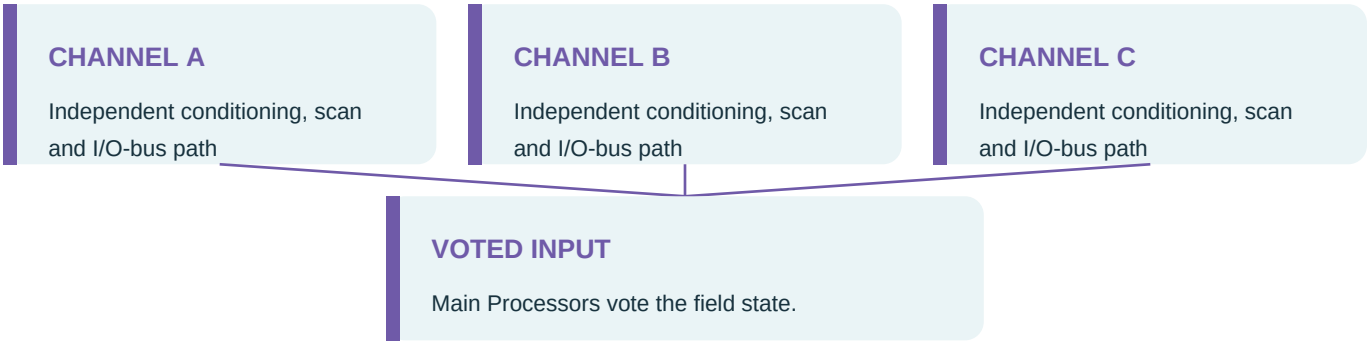
# 3502E controlled-work boundary

Each channel independently conditions and scans every 3502E input point, then sends its table to the corresponding Main Processor. The Main Processors vote the input data before the application uses it.




### BEFORE WORK

Confirm the complete 3502E identity, slot keys, ETP, interface cables, field-voltage range and approved maintenance record before installation or replacement.

### DOCUMENT SET

Approved cabinet drawings, installed labels, module and termination records, cable part numbers, safe-work procedure and acceptance test plan.

## Verified related ApterPower product pages

These links support portfolio navigation only and do not establish compatibility or substitution.

- **Invensys Triconex 3503E**
- **Invensys Triconex 3504E**
- **Invensys Triconex 3510**
- **Invensys Triconex 3511**

# Readiness checklist

### CHECK 1

Record the complete 3502E identity, chassis and logical slot.

### CHECK 2

Apply the approved safe-work procedure and isolate field energy.

### CHECK 3

Verify top key 004 and bottom key 005 before insertion.

### CHECK 4

Confirm the ETP, both interface cables and group commoning.

### ACCEPTANCE CRITERION

No work proceeds until the exact identity, energy boundary, wiring architecture and approved companion hardware agree with the project record.

## Verified related ApterPower product pages

These links support portfolio navigation only and do not establish compatibility or substitution.

**Invensys Triconex 3008**

**Invensys Triconex 3006**

**Invensys Triconex 4351B**

# Connection and replacement workflow

**STEP 5**

Check every field point against the 35-95 VAC/VDC input range.

**STEP 6**

Account for the documented diagnostic-glitch behavior in parallel circuits.

**STEP 7**

Verify point indicators plus PASS, FAULT and ACTIVE status.

**STEP 8**

Complete the approved functional test and maintenance record before release.

**ENGINEERING DECISION**

The self-test checks the ability to detect the transition of a normally energized circuit to the Off state. The official guide warns that a diagnostic glitch can appear on an adjacent de-energized point, so parallel equipment inputs and commissioning tests must account for the documented behavior.

## Verified related ApterPower product pages

These links support portfolio navigation only and do not establish compatibility or substitution.

**Invensys Triconex 8312**

**Invensys Triconex 4000188-320**

**Invensys Triconex 3706A**

# Functional checks and handover

### VERIFY 1

What is Invensys Triconex 3502E? It is a 32-point, 48 VAC/VDC TMR digital-input module with a circuit stuck-On self-test.

### VERIFY 2

How are Invensys Triconex 3502E points grouped? The 32 input points are commoned in four groups of eight.

### VERIFY 3

What input range is recommended for Invensys Triconex 3502E? The manufacturer table lists 35-95 VAC/VDC with a 95 VAC/VDC maximum.

### VERIFY 4

How does Invensys Triconex 3502E process input data? Three independent channels condition and scan the points, and the Main Processors vote the resulting input tables.

### VERIFY 5

Which indicators are present on Invensys Triconex 3502E? Each point has an On/Off indicator and the module has PASS, FAULT and ACTIVE indicators.

### VERIFY 6

Can Invensys Triconex 3502E be maintained as a hot spare? The official guide states that Tricon digital-input modules include the hot-spare feature for controlled online replacement.

## Manufacturer source ledger

### SOURCE 1

Invensys Planning and Installation Guide for Tricon v9-v11 Systems, 9720077-019, June 2014, pp. 108-114 and installation/maintenance sections.

### SOURCE 2

Invensys Planning and Installation Guide for Tricon v9-v11 Systems, Table 83 slot keys and Table 94 field-point toggle requirements.

### SOURCE 3

Schneider Electric EcoStruxure Triconex Safety Systems product information for TMR diagnostics and online module replacement context.

## Verified related ApterPower product pages

These links support portfolio navigation only and do not establish compatibility or substitution.

- **Invensys Foxboro DM900WT**
- **Invensys Foxboro P0972AJ FBI10E**
- **Invensys Foxboro P0922YU FPS400-24**
- **Invensys Foxboro FBM201 P0916AA**
- **Invensys Foxboro FBM4/39/44**
- **Invensys Foxboro FBM3A/33A**
- **Invensys Foxboro FBM2/36**
- **Invensys Foxboro FBM1/37/43**

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**3502E**