



## Operating Conditions

- MIL-STD-810F Method 511.4 compliant
- MIL-PRF-28800 Class 3
- Relative Humidity: 30% - 80% (RH non-condensing)
- Temperature: 32°F - 122°F (0°C - 50°C)
- Power Options Available:  
115 VAC 50 – 60 Hz.  
230 VAC 50 – 60 Hz.

## Master Switching Controller (MSC)

- Controls up to 2,500 test points
- Expansion to 100,000 with additional segment drivers
- Embedded rugged notebook compliant with MIL-STD-810.F Method 511.4
- Test speed: Up to 3,000 tests per minute
- High voltage disable switch for safety
- “Discharge Wait” circuit prevents switching from actuating with stimulus applied
- Heavy-duty electromechanical dual “form C” relays
- Width 17.4" (44.1 cm), height 12.9" (32.7 cm), depth with covers 26.75" (67.9 cm)

## Switching Modules

- Interface 128 pin circular
- 1280 Points Width 17.4" (44.1 cm), height 11.3" (28.7 cm), depth with covers 26.75" (67.9 cm)
- 384 Points Width 8.6" (21.9 cm), height 11.3" (28.7 cm), depth with covers 26.75" (67.9 cm)

## Standard Instrumentation (SMU)

- System accuracy
  - Continuity  $\pm 1\%$
  - Insulation  $\pm 3\%$
- Fully programmable
  - Voltage stimulus up to 1500 VDC
  - Current stimulus up to 2A
  - Continuity resistance 0.01 $\Omega$  to 99K $\Omega$
  - Insulation up to 1G $\Omega$
- Four-wire resistance measurement from 0.01 $\Omega$  to 10 $\Omega$
- Floating instrument (ground isolated)
- Capacitance measurements 10pF – 5000 $\mu$ F
- Simultaneous insulation and hipot testing
- DC dielectric (hipot) currents or 0.5mA – 2.5mA
- DC voltage measurement
- AC voltage measurement (true RMS)

## Standard Software

- TestLink<sup>®</sup> software includes:
  - TestEdit<sup>®</sup> – Text Editor for test programs and address correspondence
  - TestExecutive<sup>®</sup> – with self-programming and Write Error Program (WEP)
  - Compensated Continuity Resistance (CCR)
  - Syntax Checker
  - Diagnostics
  - TPS Re-hosting
  - Test program conversion

## Software Options

- TestAssistant<sup>®</sup> II – Test interface and program generation designer
- APG/Wiresort
- Checksum

## Hardware Options

- Continuity probe
- 128 point Latching Matrix (LM) for relay energization
- External power for relay/component energization
- Customer specified connector interface

## For more information

For the name of your representative or more information on:

- Technical specifications
- Pricing
- Services
- Other products
- Authorized sales and service agents

Please contact:

**(800) 821-3487**

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# model 2651

## Maintenance Test System

The DIT-MCO Model 2651 fulfills the testing requirements of military and commercial intermediate and depot maintenance by reducing the time to diagnose faults and return the equipment to service.

The Model 2651 tests wired assemblies such as cables, harnesses, relay control boxes, wired interface panels, control and circuit breaker assemblies. With tests including insulation resistance, circuit continuity, hipot and leakage, the system is well suited for testing wired assemblies. Additionally, components such as resistors, capacitors, diodes, switches and relays can be tested.



Available with 1500 and 500 test point modules, the 2651 can be sized for any application.

## Safe and rugged

The 2651 complies with MIL-STD-810F Method 511.4 so that the system can operate safely in the presence of hazardous vapors.

The controller includes a high voltage interlock switch so that high voltage can be disabled while repairing detected faults.

The 2651 is also certified to MIL-PRF-28800 Class 3 for shock, vibration and temperature so that the system can be operated in the harshest environments. Sealed covers guard against infiltration by dust, sand and rain. Integrated handles provide for easy lifting and movement. Connections to the unit under test are through circular "military" connectors.



The 2651 controller includes a rugged notebook computer on a storage drawer.

The system includes an embedded rugged notebook computer mounted on extension slides. During storage and shipping, the computer is safely stored within the system controller. For operation, the computer is easily accessed by opening the storage drawer.

## Modular and scalable

The modular design of the 2651 allows for the system to be expanded in increments of 128 points. Switching modules can be concentrated or distributed over 75 meters from the controller.

If future testing requirement change, the system can always be expanded to over 100,000 test point. Whether the test is small or large, the 2651 can meet the requirements.

## Simple Operation

DIT-MCO's TestExecutive™ controls the system through simple test control programs. Errors are presented with user defined reference designators. DIT-MCO's Fault Locator technology even reports the location of faults in the wiring reducing the time required for repairs.



The 2651 includes sealed covers to protect the system during storage or transportation.



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