

# model 2650



The test controller includes the computer interface, instrumentation and switching system power all in a portable module.

## The Modular Test Analyzer (MTA)

DIT-MCO's newest test solution, the Model 2650, incorporates modularity so that the system conforms to your testing needs. The modular switching units can stack providing concentrated test points or can be distributed around the unit under test (UUT) eliminating long, cumbersome adapter cables. Best of all, you may reconfigure the system at any time when your needs or the UUT changes.

## Easily distributed switching

In order to provide efficient test operations with large UUTs, moving the tester close to the product under test is optimal. The distributed configuration eliminates long adapter cables that are costly and difficult to store.

The switch modules can be placed randomly where needed, such as a cockpit or wing section, or can be stacked on a trolley for mobility and flexibility. In addition, you may want to mix racked modules with distributed modules. You make the choice that makes sense for your operation.

You even have distributed power available in each module for actuating relays during the testing. With four power buses, you can have multiple power supplies active simultaneously.

## Flexible configurations

DIT-MCO's Model 2650 is our most flexible test system. You can utilize multiple test stations operating from a single controller reducing the total cost of testing. The individual switching modules interlock to allow stacking of the units for mobility and quick setup while maintaining secured positioning. Any switching configuration and test address is possible with the virtual test address control eliminating module or cabinet restrictions.

The 2650 switching module supports up to 1500 test points per unit. The 100-point switching boards can be configured to suit your needs so you won't waste test electronics. Test interfaces on the standard unit are typically 150 point ZIF, 50 pin D-sub or EasyMate connectors but can be customized to match existing requirements. Special 500 point switching modules provide small size and weight for use in locations where only a few test points are required.

Other standard convenience features in the Model 2650 include the external energization and test probe connections built into each switching module. This allows you to quickly access any point that requires power or testing with the probe.

If you require a large number of external energization points, special switching modules configured only with EE cards accommodate this need. Just place the EE modules as you would any other switching module.

## Component tests with multiple bus (MBA)

Multiple bus architecture (MBA) is also available in the 2650 switching modules with two and four bus configurations. With MBA technology, you can easily connect power sources and instruments directly to the UUT through the switching matrix. The 2650 controller includes a 28 VDC power supply for relay activation and optionally provides a programmable 3 – 60 VDC source. You can also incorporate GPIB devices for any other functional testing requirements.

## High voltage (HVA) option

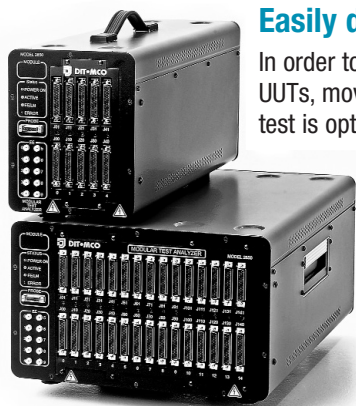
The 2650 is available with high voltage switching up to 2000 VDC and 1500 VAC. The HVA modules can be combined with the standard modules while detecting faults through all of the switching modules. The flexible configuration allows you to minimize the number of high voltage access points while still fully testing for faults between all circuits.

## Faster hook-ups

With the Model 2650's optional random hookup feature, you don't have to worry about cable connections to the tester. You simply start hooking up adapter cables in any order. A bar code or embedded ID identifies the cables and their locations. The test system automatically matches the cable hookup and runs your test program, as written without modifications. What could be simpler?

## Simple maintenance

Maintenance has also been simplified so your operators don't have to unhook adapter cables to remove switching cards. With rear access to the switching, faster maintenance and repair means less downtime for your systems.



With 500 and 1,500 point switching modules, the 2650 gives maximum test coverage with a small footprint.



**DIT-MCO® International**

5612 BRIGHTON TERRACE • KANSAS CITY, MO 64130-4530

(800) 821-3487 • (816) 444-9700 • Fax (816) 444-9737 • Email [infolink@ditmco.com](mailto:infolink@ditmco.com) • [www.ditmco.com](http://www.ditmco.com)





## Operating Conditions

- Relative humidity: 30%-80% (RH non-condensing)
- Indoor applications
- Standard configuration temperatures: 60°F-90°F (15°C-32°C)
- Power:
  - 115 VAC / 20A 1ph60Hz±10%
  - 208 VAC / 30A 3ph60Hz±10%
  - 100-110 VAC / 25A 1ph50Hz
  - 220-250 VAC / 15A 1ph50Hz

## Switching Units

- Up to 1,500 points of switching in 50 point increments
- Expandable switching: 15,000 points per segment
- Test speed: Up to 3,000 tests per minute
- Discharge Wait circuit prevents switching from actuating with stimulus applied
- Heavy-duty electromechanical dual "Form C" relays
- Standard: w 17.38" (441.45mm) h 11.3" (287.02mm) d 22.25" (565.15mm)
- Mini: w 8.63" (219.20mm) h 11.3" (287.02mm) d 22.25" (565.15mm)

## Optional Switching Units

- MBA with up to four buses for component testing
- HVA with up to 2000 VDC / 1500 VAC tests

## Standard Instrumentation

### Standard Measurement Unit

- System accuracy
  - Continuity ±1%
  - Insulation ±3%

- Fully programmable
  - Voltage stimulus up to 1500 VDC
  - Current stimulus up to 2A
  - Continuity resistance 0.01Ω to 99KΩ
  - Insulation up to 1000MΩ
- Four-wire resistance measurement from 0.01Ω – 10Ω
- Floating instrument
- Capacitance measurements 10pF – 5000μF
- Simultaneous insulation and hipot testing
- DC dielectric (hipot) currents of 0.5 mA – 2.5mA
- DC voltage measurement
- AC voltage measurement (true RMS)

## Additional Instrumentation Option

- AC dielectric strength detector – 1000 VAC
- Optional 1500 VAC with HVA switching

## Computer Environment

- Industry standard personal computer with Microsoft® Windows or:
  - Laptop
  - Industrial
  - Customer specified
  - Printer: Inkjet

## Standard Software

- TestLink® software includes:
  - TestEdit® – Text editor for test programs and address correspondence
  - TestExecutive® with self-programming and Write Error Program (WEP)
  - Compensated Continuity Resistance (CCR)

- Syntax Checker (SYNCHK)
- Diagnostics

## Software Options

- TestAssistant® II – Test interface and program builder
- Communications and networking
- APG / WIRESORT
- Checksum (CHKSUM)
- Random Hookup

## Hardware Options

- Continuity probe
- Wireless remote control terminal
- Bar code reader
- External power for relay/component energization or instrumentation support
- Customer specified connector interfaces

## 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**

DIT-MCO International  
5612 Brighton Terrace  
Kansas City, MO 64130-4530  
Tel (816) 444-9700  
Fax (816) 444-9737  
Email [infolink@ditmco.com](mailto:infolink@ditmco.com)  
URL [www.ditmco.com](http://www.ditmco.com)

**In Europe:**

Tel (44) 1482 662355  
Fax (44) 1482 662356