

Press Release

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For Immediate Release

DIT-MCO's Portable Tester Takes Automated Wire Testing Where It's Never Gone Before

Lightweight design geared for maintenance applications

KANSAS CITY – DIT-MCO International's new Model 2135 tester weighs less than 30 pounds. Small in size, it provides powerful features and functionality to meet the demands of maintenance operations that focus on troubleshooting electrical faults related to wear and tear. Crews can take the tester right into the cockpit, cabin, or even a locomotive cab to test wiring.

In addition to the basic challenge of detecting and locating faults in a fully operational aircraft or other complex system, speed in diagnosing faults is another issue. A thorough, preventive check of an aircraft's systems might take several hours with at least two people manually testing wires one pin at a time.

Taking into consideration the differences between maintenance testing and factory test conditions and requirements, Hal King, Manager-Wiring Analyzers, and other DIT-MCO engineers developed the new Model 2135. They worked closely with Honeywell's Francois Gau, Product Line Director, Nova Wire Integrity Programs, for which the 2135 is a central component.

"Any field or maintenance application, particularly the transportation industry where safety issues are paramount, would benefit from the 2135's small size and outstanding mobility," says King.

Designed for the specific needs and conditions of maintenance activities, the new tester features:

- **Switching for up to 300 test points** – DIT-MCO automatic analyzers used during manufacturing typically support up to 100,000 points with the largest systems. "Our customers, commercial airlines and military users, told us 300 points would cover their needs to test specific systems in their aircraft," said Gau. Examples of systems include

the fuel quantity indicator, autopilot system, fire-and-overheat systems, flight control system, and weaponry.

- **Portable, compact design** – The Model 2135 is powered by AC input power or battery. It operates between four to eight hours on a fully charged battery. A strong, lightweight carbon fiber molded case encloses the hardware. The case is highly resistant to impact, moisture, and corrosion.
- **Basic functions** – Once an aircraft or other complex assembly begins its operational life, electric continuity is foremost. However, the Model 2135 delivers a full 1000VDC and 3 amps, measures voltage, insulation resistance, continuity resistance, hipot, and capacitance while comparing these measured values to programmable limits.
- **Fault location** – The 2135 can be used with DIT-MCO’s Fault Locator feature to physically pinpoint a fault location. After repair, the 2135 can recheck the assembly to confirm that the short or open circuit was repaired.
- **Flexibility and compatibility** – The 2135 can be paired with an industry standard personal computer or laptop computer with Microsoft® Windows 2000 or later. It runs under DIT-MCO’s TestExecutive® analyzer control software.

“Once an aircraft is put into service, technicians aren’t concerned with huge amounts of switching or complex analytical tests,” says Honeywell’s Gau. In addition to visual inspections to spot deterioration from wear and tear, “technicians need to test specific systems on the airplane, and they may need to test several systems on different aircraft in any one day. It’s the same whether you’re talking commercial airlines or defense facilities.”

With its rugged portability, flexibility, and tailor-made functionality, DIT-MCO’s Model 2135 is a valuable tool to help maintenance crews combat the potential dangers of aging electrical systems.

About DIT-MCO – DIT-MCO International Corporation, a worldwide leader in high voltage cable/harness test systems, has 50 years experience in the manufacture of automatic test equipment for interconnect verification. Engineering, quality control/quality assurance, manufacturing, and test personnel around the world use DIT-MCO systems. These testers are used in the aerospace (military and commercial), telecommunications and transit/rail industries. Headquartered in Kansas City, Missouri, DIT-MCO has sales and service offices in the US and UK, plus authorized agents and distributors in 17 other countries.