

# Product Brochure

## MT9000 Bond & Loop Resistance Tester



The MT9000 is a portable battery operated multifunctional test unit, it is used to perform bond and loop resistance tests during the production, conversion, maintenance repair & overhaul (MRO) of aerostructures assemblies. The MT9000 is also used to test aircraft wiring harnesses including: resistive limits on screen to body connections, cable shields and shield connections in complex wiring bundles

The unit can be connected to a data-base using a wired or wireless network. The MT9000 can quickly and accurately download test requirement specifications including pass fail criteria, along with test instructions, drawings and pictures. On completion of a test the results are automatically upload providing an authenticated EASA part 21 compliant auditable data trail . This give a typical reduction in test times of 80%.

The MT9000 not only measure bond resistance, loop resistance, antistatic coating resistance it can operate in a general multi-meter mode capable of detecting resistive loop faults and can make general electrical measurements including resistance and AC/DC true RMS voltage measurements. The MT9000 allows the operator to log on to a database which means that the operator no longer has to manually input and verify the test results, thus saving time and eliminating error.

The MT9000 is battery operated and uses the latest Li-ion smart battery technology. The MT9000 is capable of automatically measuring metal to metal bond resistance using a traditional 4-wire Kelvin technique. In this mode the MT9000 measures resistance with a resolution of  $1\mu\Omega$  and a repeatability of  $10\mu\Omega$  up to a maximum of  $2\Omega$  with a test current of 2 Amp. The MT9000 can also measure bond Loop resistance using a non contact technique to the same measurement accuracy using an test current of 1A.

In short the MT9000 significantly increases test productivity, measurement accuracy, and completely eliminates errors in the taking and recording of test results.

The MT9000 has been approved for use by Airbus, Boeing and Bombardier.



Bond Resistance	0-2 $\Omega$
Loop Resistance	0-200m $\Omega$
Resolution	1 $\mu\Omega$
Antistatic Resistance	0-1M $\Omega$
Communications network	WiFi WPA2, LEAP Wired LAN
Endurance	6 hours Typical