

BLTU-4 - Bond and Loop Resistance Tester (1kHz)

SPECIFICATION

PROVEN AUTOMATIC ELECTRICAL TESTING SOLUTIONS



DESCRIPTION

The MK BLTU-4 is a portable unit for measuring the resistance of bonding points on large structures. The BLTU-4 is ideally suited to the high-specification requirements of aircraft bond testing procedures, guaranteeing accuracy, efficiency and result traceability.

MAIN FEATURES

- Tough polypropylene enclosure
- Flip-off protective lid, with self-test fixture
- LCD 10.4" Touchscreen integrated monitor
- Smart Li-Ion batteries 'hot-swappable'
- Lightweight
- Carrying handle and optional harness
- Soft-start current source prevents arcing
- On-screen instructions
- Auto and manual modes
- Wireless data upload & download
- USB port (when data adapter fitted)
- Network Port (when data adapter fitted)
- Active Couplers and Bond Probes - No need to touch screen
- Pass Fail Status indication on Couplers and Bond Probes
- Wide range of custom probes available

BOND TEST MEASUREMENT (DC) - OPTION - only applies when fitted

Current (DC) Variable, 100mA to 10A (10% accuracy)
 Resistance Range 0.03mΩ to 20Ω (displayed to 2 decimal places)
 Resistance resolution 0.01mΩ

Resistance Measurement Capability	Current (DC)	Resistance Low*	Resistance High**	Accuracy
	10A	0.03mΩ	0.2Ω	±(1% + Resistance Low) ±(1% + 0.03mΩ)
	2A	0.05mΩ	1Ω	±(1% + Resistance Low) ±(1% + 0.05mΩ)
	1A	0.06mΩ	2Ω	±(1% + Resistance Low) ±(1% + 0.06mΩ)
	0.1A	0.33mΩ	20Ω	±(1% + Resistance Low) ±(1% + 0.33mΩ)

*Resistance Low Calculation (30uV / Current (A)) + 30uV
 **Resistance High Calculation (2000mV / Current (mA))

HIZ TEST MEASUREMENT (DC) - OPTION - only applies when fitted

Mode of operation Constant Voltage (5V/30V, depending on range)
HRES Range
 Resistance Resolution 1kΩ to 1MΩ
 Resistance Resolution 0.1kΩ
 Resistance Accuracy ±(5% of reading + 0.1kΩ)
HiZ Range
 Resistance Resolution 1kΩ to 50MΩ
 Resistance Resolution 0.1kΩ
 Resistance Accuracy ±(5% of reading + 0.1kΩ)

LOOP TEST MEASUREMENT (AC)

	Range 1	Range 2
Mode	1 Arms (constant current)	1 Arms (constant current)
Loop Resistance Range	0.5mΩ to 40mΩ	>40mΩ to 2000mΩ*
Resistance Resolution	0.01mΩ	0.01mΩ
Resistance Accuracy	±(2% of reading + 0.4mΩ)	±(5% of reading + 0.4mΩ)

JOINT DIAGNOSTIC (AC, To be performed as part of a loop test)

Joint Resistance Range 5mΩ to 2000mΩ
 Resistance Resolution 1mΩ
 Resistance Accuracy ±(5% of reading + 1mΩ)

SOFTWARE

System includes MK BLTU-4 Test Management software.
 Software includes automatic test flow import and export toolset.
 Enables import of customers test requirement, and auto capture and upload of results.

SIZE

Length x Width x Depth 345mm x 295mm x 150mm
 Weight <7Kg BLTU-4 only)

Under the MK Test Systems Continuous Improvement Programme, specifications are subject to change.

*Range and accuracy figures valid using MK52 couplers