

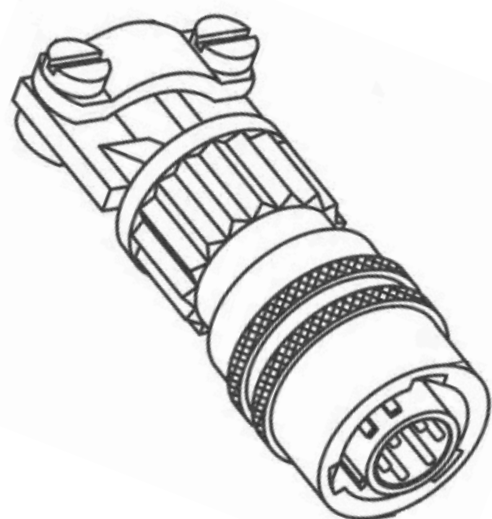


Alpha 4314 AF Digital Igniter Tester

Military-Approved Resistance Measurement

Along with its standard intrinsically-safe internal circuitry, the Alpha 4314 AF features an additional safety element via a 6-pin Mil-Spec circular connector on the front panel replacing the four-terminal banana and battery jacks. This ensures the charge circuit physically cannot be activated while the device is in use. Standard applications include measuring circuit continuity in electro-explosive igniter circuits for ballistic missiles, Safe & Arm devices, and other jettisoning functions. Approved by the US Air Force, this unit plays a key role in the research, development, and maintenance of military equipment.

- Complies to (EWR) 127-1, Section 3.13.8.1-2
- US Safety Board and Arm Forces Approved
- Current Limiting Circuitry (16mA Max)
- Rechargeable Battery Operated - NiMH 10AH
- Certificate of N.I.S.T. traceability
- Certified Safe for Explosive & Volatile Atmospheres (MIL-Std 810 Method 511)
- 1 Milliohm resolution to 20k Ohms
- Optional RS-232 Interface



Range Specifications

Rng #	Range	Resolution	Test Current	Failsafe Current	Accuracy
			STD	STD	
1	20Ω	1mΩ	10mA	16mA	± 0.03% of reading ± 0.02% of range
2	200Ω	10mΩ	1mA	1.8mA	± 0.03% of reading ± 0.02% of range
3	2kΩ	100mΩ	100μA	180μA	± 0.03% of reading ± 0.02% of range
4	20kΩ	1Ω	10μA	18μA	± 0.03% of reading ± 0.02% of range

General Specifications

Display Type: 4 ½ digits LEDs (19999)
Overload Indication: O.L.
Conversion Rate: 3 readings per second
Terminal Configuration: 4-Wire Kelvin
Current Source Compl. Voltage: Clamped at 1.6V
Power
Power: 4 "D" Cell 1.2V recharg. NiMH Batteries 10000mAh
Battery Charger: 6VDC at 300mA nominal

Temperature

Temperature Coefficient: ±0.002% per °C (from 0°C-15°C and 35°C-50°C)
Operating Temp. Range: 0°C to 50°C
Storage Temp. Range: -10°C to 70°C

Physical Specifications

Width: 9.5in / 24cm
Depth: 11in / 27cm
Height: 3in / 8cm
Weight: 3 lbs / 1.3kg net

