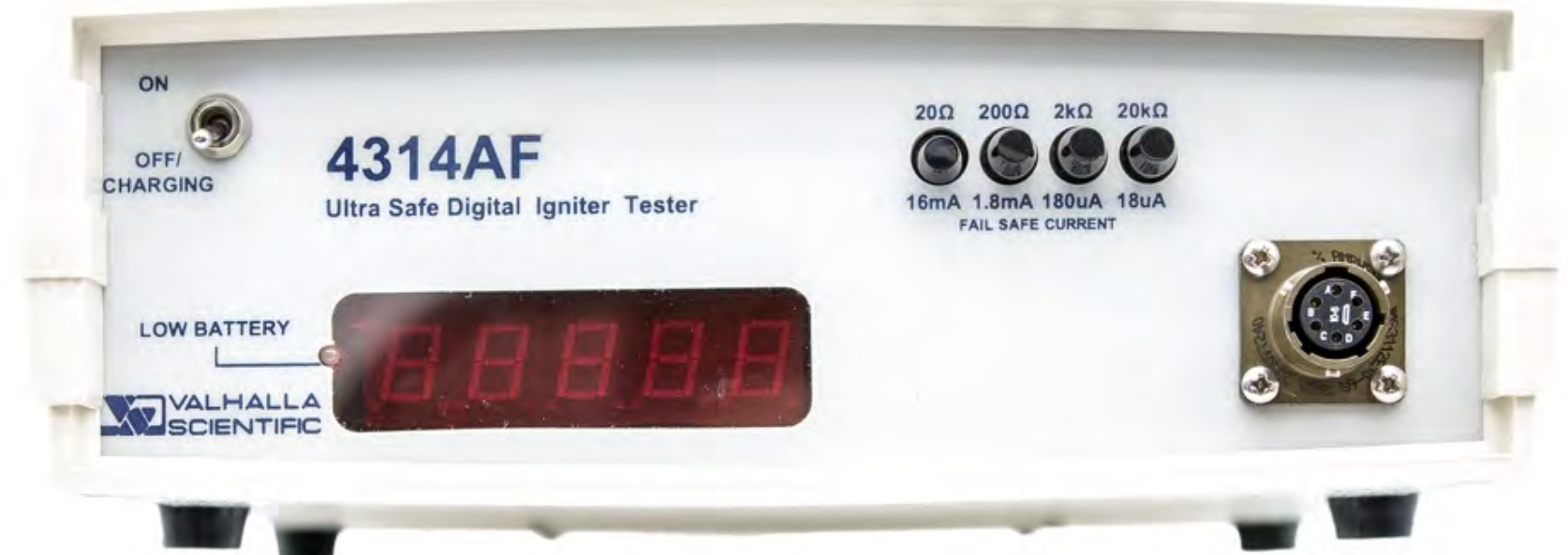


# Alpha 4314 AF Digital Igniter Tester

## 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

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

### Temperature

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

### Physical Specifications

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