

Ultra-Safe Digital Igniter Tester

Resistance Measurement Designed with Life Protecting Safety

- Certified Safe for Explosive & Volatile Atmospheres (Mil Spec)
- Complies to (EWR) 127-1, Section 3.13.8.1-2
- US Safety Board and Arm Forces Approved
- Current Limiting Circuitry (16mA Max)
- KRC - Reduced Current Option (8mA Max)
- .1mΩ Resolution to 200MΩ - 9 Ranges
- Rechargeable Battery Operated NiMH 10AH
- Certificate of N.I.S.T. traceability
- Custom Configurations Available



Rng #	Range	Resolution	Test Current		Failsafe Current		Accuracy
			STD	KRC ⁽¹⁾	STD	KRC ⁽¹⁾	
0	2Ω	100μΩ	10mA	5mA	16mA	8mA	± 0.03% of reading ± 0.02% of range
1	20Ω	1mΩ	10mA	5mA	16mA	8mA	± 0.03% of reading ± 0.02% of range
2	200Ω	10mΩ	1mA	500μA	1.8mA	1.8mA	± 0.03% of reading ± 0.02% of range
3	2kΩ	100mΩ	100μA	50μA	180μA	180μA	± 0.03% of reading ± 0.02% of range
4	20kΩ	1Ω	10μA	5μA	18μA	18μA	± 0.03% of reading ± 0.02% of range
5	200kΩ	10Ω	1μA	500nA	1.8μA	1.8μA	± 0.05% of reading ± 0.05% of range
6	2MΩ	100Ω	100nA	50nA	180nA	180nA	± 1% of reading ± 0.2% of range
7	20MΩ	1kΩ	10nA	n/a	18nA	n/a	± 2% of reading ± 0.2% of range
8	200MΩ	10kΩ	1nA	n/a	1.8nA	n/a	± 3% of reading ± 1% of range

(1) Option "KRC" Models feature a reduced Test and Fail-Safe Current. The nominal output current for these models is half a value of the standard units. The Fail-Safe for the lowest range drops from 16mA on the standard models to 8mA on the KRC model.

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 recharge. 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:	9.5" / 24cm
Depth:	11" / 27cm
Height:	3" / 8cm
Weight:	3 lbs / 1.3kg net; 6lbs / 3kg shipping

Accessories

A	Battery Charger 115Vac to 6VDC @ 300mA
HDB	4 Heavy Duty rechargeable NiMH Batteries 1.2V 10000mAH.
CC4	Carrying Case for the meter with room for the battery charger and Lead Sets
HCC	Pelican 1500 Hard Carrying Case with Custom Foam for the meter, battery charger, up to 3 sets of leads and extra batteries.
R4	Standard 19" equipment rack adaptor

Options

BCD	This option provides parallel BCD data on p rear-panel 50-pin connector. All outputs are TTL comparable levels with a drive capability of 1 LS load.
AC-115	Continuous Isolated AC Power
AF-6	A 6-pin Mil-Spec circular connector (MS3112E10-6S) replaces the four-terminal banana jacks and the battery charger jack. Makes it physically impossible to simultaneously connect the AC/DC Charger while measuring with the test leads.

As with all Valhalla Digital Ohmmeters and Igniter Testers, the Alpha 4314 is available with a host of 4-wire probes and cable sets.