

# 4314KES Configuration

Part #:Alpha4314-0125KRC | Alpha 4314 Series Ultra-Safe Digital Igniter Tester

- Certified Mil Std 810 – Method 511 Safe for Explosive & Volatile Atmospheres
- Complies to (EWR) 127-1, Section 3.13.8.1-2
- US Safety Board and Arm Forces Approved
- Current Limiting Circuitry (8mA Max)
- KRC - Reduced Current Output
- .1mΩ Resolution to 200kΩ - 4 Ranges
- Rechargeable Battery Operated NiMH 10AH
- Certificate of N.I.S.T. traceability
- Custom Configurations Available



Many other configuration available at [www.valhallascientific.com/igniter-testers2](http://www.valhallascientific.com/igniter-testers2)

## Range Specifications

Rng #	Range	Resolution	Test Current		Accuracy
			KRC <sup>(1)</sup>	Fail-Safe Current	
0	2Ω	100μΩ	5mA	8mA	± 0.03% of reading ± 0.02% of range
1	20Ω	1mΩ	5mA	8mA	± 0.03% of reading ± 0.02% of range
2	200Ω	10mΩ	500μA	1.8mA	± 0.03% of reading ± 0.02% of range
5	200kΩ	10Ω	500nA	1.8μA	± 0.05% of reading ± 0.05% 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

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

## Accessories

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

## Options

<b>RS232</b>	This option provides a safety isolated RS232 Serial interface. The interface provides measurements and other information.
<b>BCD</b>	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.
<b>AC-115</b>	Continuous Isolated AC Power
<b>AF-6</b>	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.



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