

# 4314A Configuration

Part #:Alpha4314-1234STD | 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 (16mA Max)
- 1mΩ Resolution to 20kΩ - 4 Ranges
- Rechargeable Battery Operated NiMH 10AH
- Certificate of N.I.S.T. traceability



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

## 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:** 9.5" / 24cm  
**Depth:** 11" / 27cm  
**Height:** 3" / 8cm  
**Weight:** 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

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



Valhalla Scientific, Inc.

12127 Kirkham Rd. Poway CA 92064 | Ph: 800-548-9806 | Fx: 858-457-0127

E-mail: [valhalla@valhallascientific.com](mailto:valhalla@valhallascientific.com) | Web: [www.valhallascientific.com](http://www.valhallascientific.com) | [www.ignitertesters.com](http://www.ignitertesters.com)