

4314C Configuration

Part #:Alpha4314-1257STD | 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 20MΩ - 4 Ranges
- Rechargeable Battery Operated NiMH 10AH
- Certificate of N.I.S.T. traceability



Many other configuration available at www.valhallascientific.com/igniter-testers2

Range Specifications

Rng #	Range	Resolution	Test Current		Accuracy
			STD	Failsafe Current 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
5	200kΩ	10Ω	1μA	1.8μA	± 0.05% of reading ± 0.05% of range
7	20MΩ	1kΩ	10nA	18nA	± 2% of reading ± 0.2% 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 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

RS232	This option provides a safety isolated RS232 Serial interface. The interface provides measurements and other information.
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

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 | Web: www.valhallascientific.com | www.ignitertesters.com