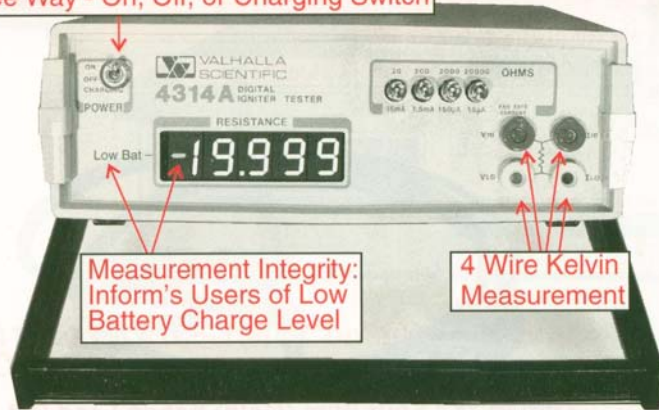


Ultra-Safe Resistance Measurement

Three Way - On, Off, or Charging Switch



General Specifications

4314A Ranges	20Ω	200Ω	2KΩ	20KΩ	---	---	---
4314AB Ranges	20Ω	rear input 6 pin DIN		---	---	---	
4314AN Ranges	20Ω	200Ω	---	---	---	2MΩ	20MΩ
4314AP Ranges	20Ω	---	2KΩ	---	200KΩ	---	---
4314B Ranges	---	200Ω	2KΩ	20KΩ	---	---	---
4314BN Ranges	---	200Ω	---	---	200KΩ	---	---
4314GD Ranges	20Ω	200Ω	---	20KΩ	200KΩ	---	20MΩ
4314H Ranges	---	200Ω	2KΩ	---	200KΩ	2MΩ	---
Resolution	1mΩ	10mΩ	100mΩ	1Ω	10Ω	100Ω	1KΩ
Test Current	10mA	1mA	100μA	10μA	1μA	100nA	10nA
Fail Safe	15mA	1.5mA	150μA	15μA	5μA	5μA	5μA
*4314BK Ranges	20Ω	200Ω	2KΩ	20KΩ	---	---	---
4314LK Ranges	20Ω	200Ω	2KΩ	---	200KΩ	---	---
4314UK Ranges	20Ω	200Ω	2KΩ	20KΩ	---	---	---
Fail Safe	mA	1.5mA	150μA	20μA	1.5μA	---	---
4314AN-1 Ranges	---	200Ω	---	---	---	2MΩ	20MΩ
Fail Safe	---	1.5mA	---	---	---	150μA	15μA
#4314H Ranges	---	200Ω	2KΩ	---	200KΩ	2MΩ	---
Fail Safe Current	---	150μA	15μA	---	150nA	15nA	---
4314N Ranges	---	200Ω	2KΩ	---	---	2MΩ	20MΩ
Fail Safe	---	1.5mA	150μA	---	---	0.15μA	15nA

The 4314 Series Digital Igniter Testers are portable digital ohmmeters which have been **specifically designed for ultra-safe resistance testing on explosive devices (ie squibs, detonators)**. Many versions of the 4314 series have had the unit's circuitry reviewed and approved by a U.S. Government Safety Board as well as most branches of the armed forces for specific military programs (ie Cruise Missile).

Designed with Life Protecting Safety in Mind

There are a variety of critical military, aerospace and industrial applications which utilize squibs and other blasting devices. In each case, it is extremely important that these devices detonate when required. It is equally important that these devices do not detonate while being tested for coil integrity. To this end, Valhalla **equips each instrument with redundant, dual fail-safe current limiting network circuitry to insure that the instrument test currents cannot exceed the specified amount.** Even in the unlikely event of a worst case component failure, the output current limiting network is still in effect. To prove that this level of safety is intact in every unit we ship, a worst case component failure is simulated during final test with the resulting output recorded and attached to the unit.

The 4314's utilize a four-wire Kelvin input configuration to eliminate lead wire length and lead contact resistance errors. **The units are battery powered** with a heavy duty rechargeable Ni-Cad pack for portability and line isolation purposes. An AC adaptor battery charger is standard. For added convenience and safety, the 4314's feature an internal switching configuration **which automatically disables the battery charging circuit when in the operate mode**. Alternately, all power is removed from the output circuitry when in the off/charging mode.

Use With A High Low Limit Comparator

When ordered with the "BCD/MX" option, the 4314's may be used with Valhalla's 1248 Dual Limit Comparator without compromising safety or line isolation (see pp. 15).

*** Front panel charger input jack and fuse holder # 2 volt limiter/clamp open circuit voltage - custom safety engineered versions with specific ranges and fail safe current levels are available : contact Valhalla Sales Department for assistance.**

Accuracy: (180 days, 25°C±10°C) ±0.02% of reading ±0.02% of range for 20Ω through 200KΩ ranges. ±1.0% of reading ±0.02% of range for 2MΩ range. ±0.02% of rdg ±0.02% of range for 20MΩ

Display: 4½ digit (19999) L.E.D. - 20,000 counts

Terminal Configuration: Four-wire Kelvin

Overload Indication: Display flashes

Maximum input: 250 VDC or peak AC without damage

Operating Temperature Range: 0°C to 50°C

Temperature Coefficient: ±.002%/°C (from 0°C to 15°C and 35°C to 50°C) **Conversion Rate:** Approximately 3 per second

Power: Rechargeable Ni-Cad batteries & charger (115 VAC 50 - 60 Hz) **Size:** 235mm/9" D x 254mm/10" W x 76mm/3" H

Weight: 1.6 KG/3½ lbs NET 3KG/6½ lbs Shipping

Ordering Information

Model 4314A or B	Digital Igniter Tester
Model 4314xx	All other Digital Igniter Tester Versions
Option "BCD" MX	Data Outputs
Option "CC4"	Meter & Accessory Carrying Case
Option "HDB"	Spare Battery Pack
Option "K"	Kelvin Clip Set (with KCS)
Option "KK"	Kelvin Clip Set (with JAWS)
Option "MP-1"	Kelvin Micro-probes
Option "MP-2"	Kelvin Mini-probes
Option "R1"	Rack Mount Adaptor
Option "SP-2"	Two Year Spares Kit
Option "M4314"	Additional User/Maintenance Manual

CALL TOLL FREE
1-800-548-9806


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