

A NEW ERA OF PROTECTION

4314Mi Wide-Range, Ultra-Safe Digital Igniter Tester

Featuring the intrinsically-safe internal circuitry of our 4314 igniter tester *i*-series, the 4314Mi adds an additional level of safety to the next generation of precision measurement instruments. Covering a wide 8-measurement range, the *Mi* is an ideal fit for aerospace, defense, and manufacturing applications.

The 4314Mi incorporates redundant fail-safe, current-limiting network circuitry ensuring the instrument test currents cannot exceed the specified amount, even in the unlikely event of a worst-case component failure.

Using a single connector on the front panel for measurements and charging, the 4314Mi prevents the possibility of having the charging adapter connected while using the instrument for measurements.

The isolated serial interface allows for remote control of the unit through an RS-232 port on the back panel. Digital signals are transmitted across the isolation barrier using iCoupler technology. The user can fully operate the meter, query measurement, and configuration data via the interface.



Key Features

- Reduced Current (8mA Max)
- Wide Range 2Ω - 20MΩ
- 0.1mΩ Resolution
- Rechargeable Battery-Operated NiMH 10AH
- Fully Remote Controllable via Serial Interface
- Certificate of NIST Traceability
- Complies to (EWR) 127-1, Section 3.13.8.1-2
- Certified Mil Std 810 - Method 511 Safe for Explosive & Volatile Atmospheres

Range Specifications

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

General Specifications

Display Type: 4 ½ digits OLED (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: "D" Cell Pack 4.8V 10000mAh NiMH
Battery Charger: 4.9VDC at 1.25A nominal
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

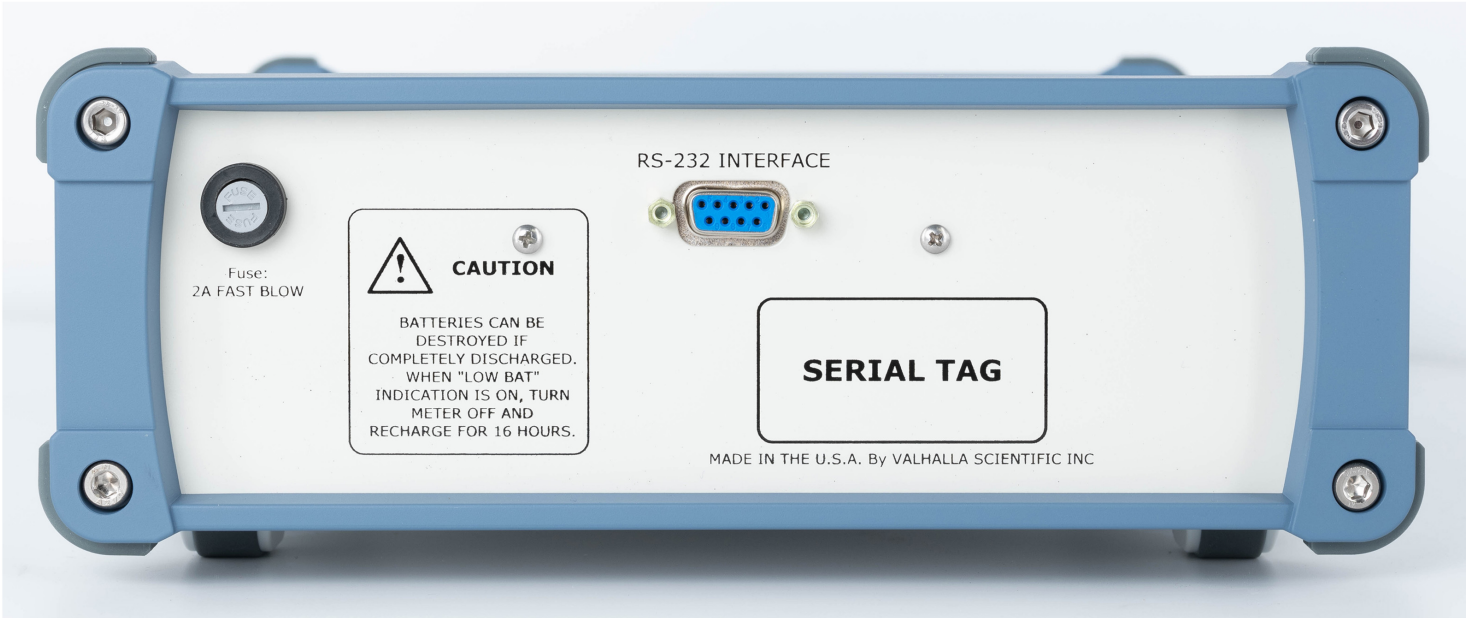
Depth: 11.5" / 29.2cm
Width: 9.75" 24.8cm
Height: 3.5" / 8.9cm
Weight: 6.2 lbs / 2.8kg net

Accessories

AF-A Replacement Battery Charger/Power Supply 115V/230Vac to 5.9VDC @ 1.25A
HDP Heavy Duty rechargeable NiMH Replacement Battery Pack 4.8V 10000mAh.

Options

Custom The 4314Mi can be customized by removing the Serial Interface.



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