

620A-4R - Water Resistant Igniter Tester Failsafe Digital Ohmmeter



IP-53 Dust and Water Resistant



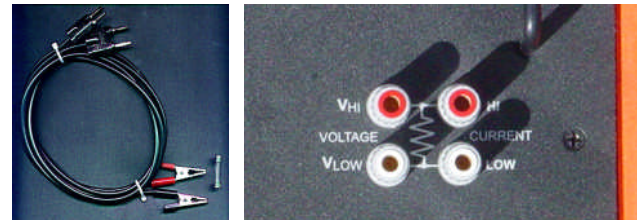
The latest in Multi-purpose Igniter Testers a ruggedized version of the AMPTEC 620A-4

The AMPTEC RESEARCH 620A-4R Igniter Tester/Failsafe ohmmeter is designed for use in harsh environments, on the go “mobile” take it anywhere use, as well for general purpose lab test bench use on ordnance. **Designed originally for U.S. Commercial Aircraft maintenance (i.e. Boeing 777) fire bottle squibs and escape slide squibs**, the ruggedized AMPTEC 620A-4R features: a completely water-resistant main operation panel, same ranges and circuitry as the USAF Munition Safety Board Approved AMPTEC 620A-4, 4-Wire Gold plated binding posts, wide viewing angle (tilted) display - readable in sunlight, a storage area for test leads, charger and more ... It even comes with a storage area that holds both the AC/DC Battery Charger and the measurement test leads (lid perimeter). The inside lid has a laminated 620A-4R Instruction/Operation card that makes it easy for test personnel to understand and use. The battery charging jack is protected with a spring loaded cover to prevent any dust or moisture from getting into the charging jack electronics. **The AMPTEC 620A-4R uses the U.S.A.F. Non-Nuclear Munitions Safety Board approved 620A-4 Igniter Tester Circuitry (i.e. Main PCB).**



Measure On The Go - Sunshine or In The Rain

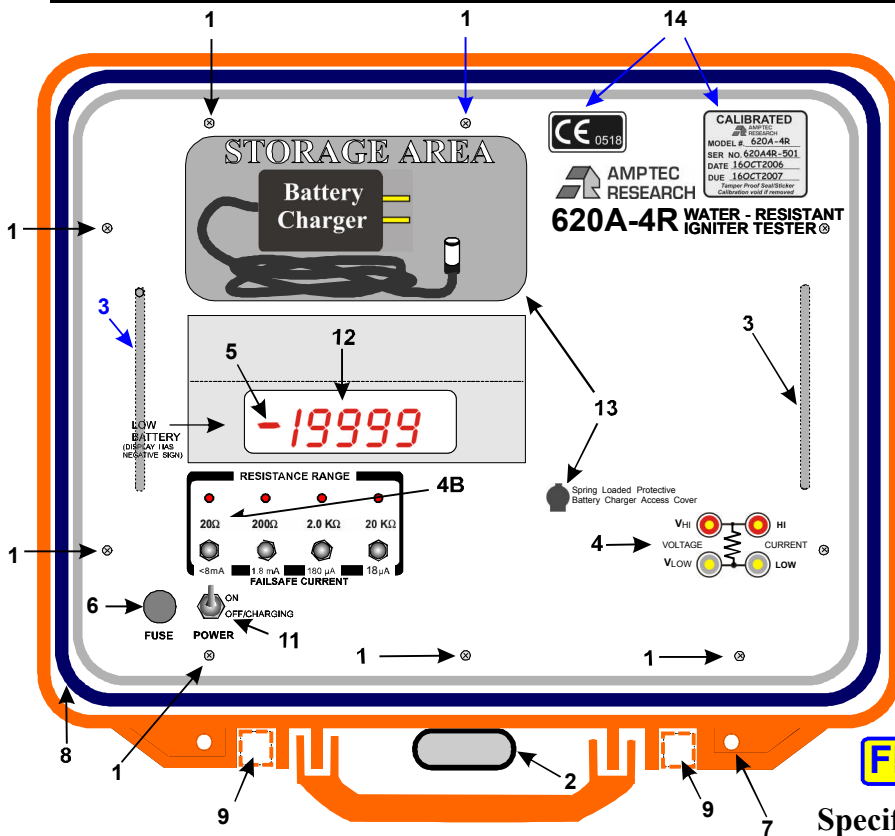
Not only representing the latest in ultra-safe resistance testing on explosive devices (i.e. squibs, igniters, flares, detonators) the 620A-4R internal packaging and impact resistant case is also constructed to a water tight standard. The polypropylene case is water proof when closed (and purge valve is shut) to a depth of 3 feet. It also floats in water and **can be operated outside in direct rain, as it has silicon boot seals over all switches**. The waterproof overlay covers a unibody aluminum front plate mounted on a water-resistant compressed o-ring in bezel construction. The SuperBright LEDs are 5 times brighter (25,000 lumens) that normal “high intensity” LEDs. The unit’s display reads easily outdoors in sunlight.



Ready to Safely Measure Squib Resistance

The 5 mA test current level and failsafe limit of 8mA can not be exceeded due to the nature of the 620A4R Failsafe circuitry. The 620A-4R comes with test leads and slimline battery charger. Whether charging the Ni-CAD batteries or measuring a squib’s resistance there is only one operation mode at a time, it’s a case of “**either/or**” but never both. If 620A-4R operator connects the AC/DC Battery Charger to the charging jack, they must also place the main power switch to the “Off” position, in order to switch in the battery charging circuitry. When the 620A-4R is in the “Power ON” position the AC/CD Battery Charger connection circuitry is disconnected and the instrument measurement circuitry is activated. The USAF Non-Nuclear munition safety board has approved the 620A-4 Failsafe current limited circuit for use on all non-nuclear munitions and squibs.

620A-4R Water-Resistant Igniter Circuit Tester / Failsafe Digital Ohmmeter



620A-4R Versatility and Value

The AMPTEC 620A-4R (see diagram on the left) has the flexibility for a multitude of squib test uses from fire control systems on commercial aircraft to warhead or rocket motor squibs. The AMPTEC 620A-4R comes self-contained with its own test leads, Universal Input battery charger (100 VAC - 240 VAC), operator/maintenance manual, United States N.I.S.T. Traceable Calibration Certificate, Mfg. Certificate of Compliance and CE mark. One set of test leads are included, normally the alligator clip leads, however the user may substitute the "OP401" Gold Plated Handheld Single Pointed Kelvin Probes in lieu of the alligator clip test leads. The 620A-4R is **IP53 Ingress Protection Dust and Water resistant** rated and comes with a spring loaded protective cover for the battery charger input jack.

FEDEX SWIFT delivery program

620A-4R Ruggedized Igniter Tester Features

1. **Calibration/Maintenance access screws** - remove to have access to the internal electronics for repair or calibration.
2. **Auto Purge Valve** - Air Pressure Equalization after transit.
3. **Handles** - see item #1 then lift for calibration access, not to be used to carry unit around.
4. **Gold Sive Way Connectors** - for test lead hookup (i.e. Alligator leads, Single Pointed Handheld Probes etc) easy connect to wires, lugs or banana leads .
- 4B. The *measurement circuitry used by the AMPTEC 620A-4R is identical* to the USAF Munition Safety Board Approved AMPTEC 620A-4 Igniter Circuit Tester.
5. **Minus sign** - indicates "low battery level" time to connect the battery charger (which will only charge when unit is off).
6. **Fuse Access** - for general operation (2 ampere slow blow)
7. **Padlock Hole** - locks secure whenever needed.
8. **Water Resistant O-ring seal(s)** in lid & under the front plate, provides a water tight seal.
9. **Tight Squeeze Flip Latch Area** - press palm down on lid corner to open - helps provide a waterproof seal (closed).
10. **Resistance Ranges** - 20Ω, 200Ω, 2.0KΩ, and 20 KΩ - silicone boot provides water-resistance switch cover (LED indicates the selected range).
11. **"Either or" Main Power Switch** - Power On or OFF/ Charging Switch prevents the simultaneous use of both.
12. **Beveled Display Hood** and Super Bright LED Display readable in sunlight.
13. **Battery Charger Connection:** Power Switch must also be in the **Off** position to recharge the batteries. Universal input Voltage 100 VAC to 240 VAC Charger is **UL listed**.
14. Unit includes **US N.I.S.T Traceable calibration**, tamper resistant calibration sticker and is **CE Marked**.

Specifications

- Accuracy:** (180 days 25°C ± 10°C) ± 0.02% of reading ± 0.02% of range for 20 ohm through 20 Kohm ranges.
- Failsafe Current :** < 8 mA - 20 Ohm range, < 1.8 mA - for 200Ω range, < 180 μA for 2.0 KΩ range and < 20μA for 20 KΩ range.
- Display:** 4½ digit (19999) SuperBright L.E.D. - 20,000 counts, Display is visible in direct sunlight.
- Terminal Configuration:** Four-wire Kelvin to Clip ends
- Overload Indication:** Display flashes
- Maximum Input:** 250 VDC or peak AC without damage
- Operating Temperature Range:** 0°C to 50°C
- Temperature Coefficient:** ±.002% per °C (from 0°C to 15°C and 35°C to 50°C)
- Conversion Rate:** Approximately 3 per second
- Power:** Rechargeable Ni-Cad batteries (5.0 Ahr) & Charger (115 VAC 50-60 Hz)
- Max. Internal Voltage:** 4.8 VDC - 4 ea. 1.2 V Ni-CADS
- Humidity :** 5 to 95%, waterproof to 3' depth when closed
- Size:** 295mm/11.5" D x 335mm/13.5" W x 155mm/6" H
- Water and Dust Resistant to IP-53** (case closed), water proof to 4 foot depth lid closed.
- Weight:** 12lbs NET 15 lbs shipping

* specifications subject to change

Order Information

AMPTEC 620A-4R Igniter Tester
 Option "OP-401" Handheld Probe Set
 Option "OP-430" Connector Adapter



* AMPTEC ACCEPTS VISAMASTERCARD CREDITCARD PURCHASES



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