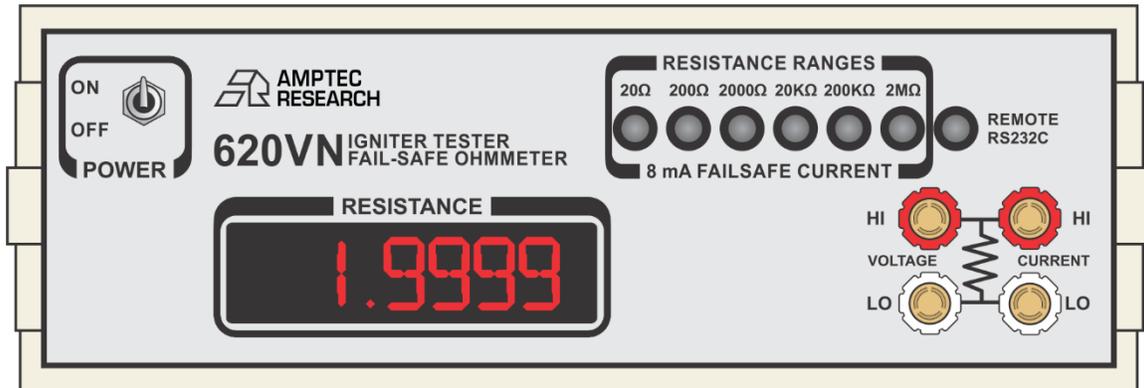


# The 620VN Igniter Circuit Tester & Fail-Safe Ohmmeter



## The gold standard in ultra-safe resistance testing.

The 620VN Igniter Tester is a portable digital ohmmeter specifically designed for ultra-safe resistance testing on explosive devices. Approved by the USAF Non-nuclear Munitions Safety Board and compatible with our RS232C Interface (OP-232), this product is the safest and easiest to use in its field.

The AMPTEC 620VN offers fail-safe current limiting resistor network circuitry to ensure that instrument test currents cannot exceed 8 mA. In the unlikely event of a component failure, the output current limiting network would still be in effect. If the 620VN had an electrical fault, it offers the life-saving advantage of failing safely.

The 620VN is part of a lineage of intrinsically safe igniter circuit testers in the 620 Series product line, enabling you to take high-accuracy resistance measurements across virtually any range from 2  $\Omega$  to 20 M $\Omega$ .

Every AMPTEC product is proudly made from start to finish in the USA and comes with a one-year warranty, plus an N.I.S.T calibration certificate with data at no extra cost.



## AMPTec 620VN Igniter Circuit Tester Datasheet

The below specifications apply to units that are purchased as a part of our 620VN Commercial Package with no additional options. For information on the specifications of units with additional options, please refer to the following page.

### AMPTec 620VN Range, Resolution, Accuracy, & Current Levels

<b>Range</b>	20 Ω	200 Ω	2000 Ω	20 KΩ	200 KΩ	20 MΩ
<b>Nominal Current</b>	5 mA	0.5 mA	50 uA	5 uA	0.5 uA	5 nA
<b>Failsafe Current</b>	8 mA					
<b>Resolution</b>	1 mΩ	10 mΩ	100 mΩ	1 Ω	10 Ω	100 Ω
<b>Accuracy</b>	± .02% of reading & range	± .05% of reading & range	± 1% of reading & ± 0.2% of range			

### AMPTec 620VN General Specifications

<b>Display</b> ..... 4 ½ digit LED display <b>Input Voltage</b> ..... 4.8 VDC maximum <b>Low Battery</b> ..... Display reads "—" <b>Overload/Overrange</b> ..... Display flashes <b>Temperature Coefficient</b> ... ± 0.002% per 1° C <b>Temperature Limit (Storage)</b> ..... -20° to 70° C <b>Weight (Standard Version)</b> ..... 3.5 lbs.	<b>Dimensions</b> ..... 9.75" x 10" x 3.25" <b>Internal Voltage</b> ..... 250 VDC maximum <b>Open Circuit</b> ..... 1.6 VDC <b>Terminal</b> ..... Banana jack binding posts <b>Temperature Limit (Operating)</b> ..... 0° to 50° C <b>Update Rate</b> ..... 3 readings per second
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### AMPTec 620VN Power Specifications

<b>Batteries</b> ..... 4ea 5000 mAh NICAD batteries <b>Battery Charger</b> ..... AMPTec 620-DC <b>Battery Charger Input</b> ..... 90 – 264 VAC <b>Battery Charger Output</b> ..... 5.9V	<b>Battery Charge Time</b> ..... ~8 hrs. til full charge <b>Battery Charger Charging Current</b> ..... 2A max <b>Battery Life</b> ..... 1000 cycles or 3 years
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### OP-232 RS232C Interface Specifications

*This option enables your unit to connect to a computer and receive commands via RS232C. OP-232 comes standard with the purchase of a 620VN Igniter Tester.*

<b>Connection</b> ..... DE-9 connector	<b>Rear terminal block</b> .... 4 Gold-Plated terminals
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## AMPTEC 620VN Igniter Circuit Tester Datasheet Continued

### OP-247 Optically Isolated Power Specifications

*This option enables your unit to be ran via AC power, allowing for uninterrupted use. Unless otherwise noted in the table below, all other specifications match those listed in the general specifications section.*

AC/DC adaptor .....	AMPTEC 247-DC	Adaptor input .....	120VAC
Adaptor output .....	24 VDC	Unit Weight .....	2.3 lbs

### Op-519 Rack Mount Specifications

*This option, OP-519S (for single units) and OP-519D (for dual units), allows your unit to be rack mounted. Unless otherwise noted in the table below, all other specifications match those listed in the general specifications section.*

#### OP-519S (Single Unit)

Dimensions .....	19" x 3.5" x 10"
Materials .....	ABS plastic face, aluminum
Weight .....	2.3 lbs (plus unit weight)

#### OP-519D (Dual Units)

Dimensions .....	19" x 3.5" x 10"
Materials .....	ABS plastic face, aluminum
Weight .....	2.1 lbs (plus unit weights)



### AMPTEC 620VN Ordering Information

620VN	Igniter tester, OP-232 RS232C Interface, OP-300 leads, 620-DC battery charger, N.I.S.T. calibration certificate
OP-100	Meter transit/hard shell case
OP-110	Test lead storage pouch
OP-232	RS232C computer Interface
OP-247	Optically isolated power
OP-290	Alligator clip test lead set
OP-300	Gold plated 4-Wire Kelvin clip leads
OP-302	5-way banana jack backed Kelvin clips
OP-401	Gold plated single tip Kelvin probes
OP-519S	Single rack mount tray
OP-519D	Dual rack mount tray

*The above is only a small selection of the accessories that are compatible with the 620VN meter. For a full list or pricing information, please contact us via our website: [www.amptec.com](http://www.amptec.com)*