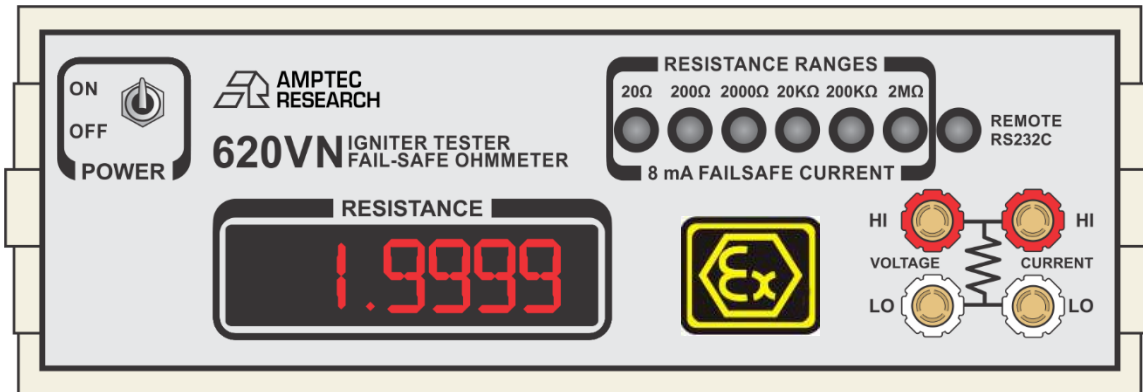




The 620VN Igniter Circuit Tester & Fail-Safe Ohmmeter



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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 Ω to 20 M Ω .

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.



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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

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

AMPTec 620VN General Specifications

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

AMPTec 620VN Power Specifications

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

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.

Connection DE-9 connector	Rear terminal block 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)	OP-519D (Dual Units)
Dimensions	Dimensions
Materials	Materials
Weight	Weight



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	\$175.00
OP-110	Test lead storage pouch	\$95.00
OP-232	RS232C computer Interface	\$895.00
OP-247	Optically isolated power	\$795.00
OP-290	Alligator clip test lead set	\$160.00
OP-300	Gold plated 4-Wire Kelvin clip leads	\$160.00
OP-302	5-way banana jack backed Kelvin clips	\$160.00
OP-401	Gold plated single tip Kelvin probes	\$160.00
OP-519S	Single rack mount tray	\$425.00
OP-519D	Dual rack mount tray	\$795.00

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



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