The Amptec 620UK
Digital Safety Ohmmeter

The gold standard in ultra-safe resistance testing.

The 620UK Digital Safety Ohmmeter is a portable digital ohmmeter specifically designed for ultra-safe resistance testing on explosive devices, regardless of the volatile atmosphere. Approved by the USAF Non-nuclear Munitions Safety Board, European Eex, and the UK Ministry of Defense, this product is the safest and easiest to use in its field. Now thanks to our ISO 9001:2015 certification, you can also be confident that you're receiving the highest quality instrumentation available.

The AMPTEC 620UK 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 620UK had an electrical fault, it offers the life-saving advantage of failing safely.

The 620UK leads a lineage of intrinsically safe igniter circuit testers and ohmmeters in the 620UK Series product line, enabling you to take high-accuracy resistance measurements across virtually any range from 2 Ω to 2 MΩ.

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 RESEARCH

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AMPTEC 620UK Digital Safety Ohmmeter Datasheet

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

AMPTEC 620UK Range, Resolution, Accuracy, & Current Levels

Range	2 Ω	20 Ω	200 Ω	2 KΩ	20 KΩ	200 KΩ	2 MΩ
Nominal Current	5 mA	5 mA	0.5 mA	50 µA	5 µA	0.05 µA	50 µA
Failsafe Current	8 mA	8 mA	1.5 mA	150 µA	15 µA	1.5 µa	15 nA
Resolution	100 mΩ	1.0 mΩ	10 mΩ	100 mΩ	1.0 Ω	10 Ω	100 Ω
Accuracy	±0.02% of reading, ±0.05% of range	±0.02% of reading, ±0.05% of range	±0.02% of reading, ±0.05% of range	±0.02% of reading, ±0.05% of range	±0.02% of reading, ±0.05% of range	±.05% of reading & range	±1.0% of reading, ± 0.2% of range

AMPTEC 620UK General Specifications

Display ..... 4 ½ digit LCD display

Input Voltage ..... 250 VDC maximum

Low Battery ..... Display reads "LO BAT"

Overload/Overrange ..... Display flashes

Temperature Coefficient ... ± 0.002% per 1° C

Temperature Limit (Storage) ..... -20° to 40° C

Weight (Standard Version) ..... 5 lbs.

Dimensions ..... 7.69" x 7.56" x 3"

Internal Voltage ..... 4.8 VDC maximum

Open Circuit ..... <1.4 VDC

Terminal ..... 3 pin male Amphenol connector (LMG/1/07261/220)

Temperature Limit (Operating) ..... 0° to 50° C

Update Rate ..... 3 readings per second

AMPTEC 620UK Power Specifications

Batteries ..... 4pcs Duracell MN1500 AA

Battery Capacity ..... 1.5 V

AMPTEC 620UK Igniter Circuit Tester Ordering Information

The below is a comprehensive list of every available AMPTEC brand accessory and modification that is compatible with the 620UK Igniter Tester. Please contact us for pricing or questions about a custom accessory/modification.

General 620UK Ordering Information

SKU	Description
620UK	620UK igniter tester, 630-100 soft case, 620UK-290 leads, N.I.S.T. calibration certificate

620UK Compatible Accessories

SKU	Description	Notes
620UK-290	5' Alligator clip lead set for 620UK tester	Incl. with purchase of meter
620UK-305	5' Single banana jack lead set for 620UK tester	
620UK-401	5' Gold plated single point Kelvin probe set for 620UK tester	
630-100	Padded case for unit	Incl. with purchase of meter