

620UK Resistance Range/Resolution

2.0Ω	20Ω	200Ω	2ΚΩ
100μΩ	1.0mΩ	10mΩ	100mΩ

20ΚΩ	200ΚΩ	2ΜΩ
1.0Ω	10.0Ω	100.0Ω

620UK Nominal Test Current/Failsafe Current Levels

2.0Ω	20Ω	200Ω	2ΚΩ
5mA	5mA	0.5mA	50µA
8mA	8mA	1.5mA	150µA

20ΚΩ	200ΚΩ	2ΜΩ
5µA	0.5µA	50nA
15µA	1.5µA	15nA

620UK Explosive Safety Ohmmeter

The 620UK Explosive Safety Ohmmeter is a portable digital ohmmeter that has been specifically designed for ultra-safe resistance testing in explosive atmospheres (e.g. squib resistance, igniters, detonators, electrical bonds). The 620UK complies with the EU ATEX Directive and meets the Intrinsic Safety standard Eex-ib-IIc-T4. EMC tested in accordance with Defence Standard 59-41 and designed in accordance with Defence Standards 66-31, 07-85 and 05-34 the 620UK provides a reliable and safe means of measuring resistance in explosive and volatile atmospheres. Featuring seven resistance ranges and an all metal case with a separate battery compartment the 620UK provides a safe and easy method of measuring resistance in explosive atmospheres.

Low Ohm Range – Accuracy and Resolution

The 620UK has the following fullscale resistance ranges $-2.0\Omega,\,20\Omega,\,200\Omega,\,2K\Omega,\,20K\Omega,\,20K\Omega,\,200K\Omega$ and $2M\Omega.$ The 2.0Ω fullscale range provides a two-wire resistance measurement from 0.0000Ω to $1.9999\Omega.$ The 2.0Ω range also offers a low (1/10) $0.1m\Omega$ resolution. The $2M\Omega$ range provides a relatively high resistance range for determining an "open circuit" (>2M Ω) state on ordnance wiring.

Better and Safer than a multifunction DMM

Multifunction DMM's have many modes (e.g. DC Voltage, AC Voltage, DC Current, AC Current, frequency, shift keys and more) that can accidentally mis-measure igniter circuit resistance. If the DMM has an electrical fault the igniter circuit may accidentally fire. The 620UK only measures resistance. If the 620UK had a fault it offers the life saving advantage of failing safe.

Meter Accessories – Transit Case, Probes and more

The 620UK comes with Operator Manual and Calibration Certificate. A variety of optional accessories include Impact Resistant Transit Case (holds the 620UK and all accessories). Handheld probes and custom leads are also available.

Specifications

Accuracy: (1 year 25°C ±10°C) ±0.02% of reading ±0.05% of range for the 2Ω range, ±0.02% of reading and range for 20Ω through 20KΩ ranges, ±0.05% of reading and range for the 200KΩ range, ±1% of reading and ±0.2% range for the 2MΩ range.

Display: 41/2 digit LCD (20,000 counts) with backlight for use in low ambient light conditions.

Operating Temperature Range: -20°C to 40°C Temp. Coefficient: 2Ω to $200K\Omega$ - $\pm 0.002\%$ /°C (0°C - 15°C & 35°C - 50°C); $2M\Omega$ - $\pm 0.02\%$ /°C (0°C - 15°C & 35°C - 50°C);

Low Battery Indication: LCD Display shows 'Low Battery'

Over Range Indication: LCD Display shows '1 and <<OR'

Measurement Update Rate: Approximately 3 per second

Open Circuit Current Source Compliance Voltage: Diode clamped at <1.4V

Power: Four 1.5V AA-size Alkaline batteries Size: 178mm (7")W x 203mm (8")D x 63.5mm (2.5")H Weight: 2.3kg (5lbs) Net; 3.2kg (7lbs) Shipping Calibration Access: Requires tamper-proof security

screwdriver.

