



## AU92

# Automotive Multimeter

Model AU92 is a full featured multimeter that has additional measurement for automotive servicing. It offers a built-in thermometer to measure air, surface or immersion temperatures. The meter also tests engine RPM and dwell in addition to standard multimeter features of voltage, current, resistance and continuity. Perform accurate RPM measurements for 2- and 4-stroke automotive engines using the Inductive Pickup tool. A well designed tool for your automotive testing needs.

- Performs all standard electrical test for on-car and bench troubleshooting
- Tests engine RPM and dwell
- Capacitance, Frequency and Temperature
- Measures DC/AC voltage, DC/AC current, resistance, diodes and continuity beeper, duty cycle
- Accurate RPM measurements for 2- and 4-stroke automotive engines using the inductive probe
- Locate faulty wiring and components
- Data Hold button retains display data
- Protective holster with magnetic hanging strap
- Compact size
- Includes inductive pick-up probe, carrying case, test leads, test lead extender tips, threaded alligator clips, type K temperature probe, spare fuse

### No hassle warranty

*No waiting.*

*No shipping charges.*



Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)



AU92



N10140





## AU92 Automotive Multimeter

## Data Sheet

Specifications 23 °C ± 5 °C, < 75% R.H.

Function	Range	Accuracy
<b>DC VOLTS</b>		
	400 mV, 4 V, 40 V, 400 V, 600 V	±(1.0% rdg + 2 dgts)
Resolution:	0.1 mV	
Input impedance:	400 mV: >100 MΩ; 4 V: 10 MΩ; 40 V ~ 600 V: 9.1 MΩ	
Overload protection:	600VDC or AC rms	
<b>AC VOLTS</b>		
	400 mV, 4 V, 40 V, 400 V, 600 V	
	400 mV (50 ~ 100 Hz)	±(2.0% rdg + 5 dgts)
	4, 40, 400, 600 V (50 ~ 500 Hz)	±(2.0% rdg + 5 dgts)
Resolution:	0.1 mV	
Input impedance:	400 mV: >100 MΩ; 4 V: 10 MΩ; 40 V ~ 600 V: 9.1 MΩ	
Overload protection:	600 VDC or AC rms	
<b>DC CURRENT</b>		
	400 μA, 4000 μA, 40 mA, 400 mA, 10 A	
	400 μA to 400 mA ranges	±(2.0% rdg + 2 dgts)
	10 A range	±(3.0% rdg + 3 dgts)
10A input: 10 A for 60 seconds maximum followed by a 10 minutes cooling period		
Resolution:	0.1 μA	
Voltage burden:	0.2 V on 400uA, 40mA ranges 2V on 4000 uA, 400 mA ranges	
Input protection:	0.5 A / 500V fast blow ceramic fuse (FP520) 10 A / 500 V fast blow ceramic fuse (FP540)	
<b>AC CURRENT (50-500 Hz)</b>		
	400 uA, 4000 uA, 40 mA, 400 mA, 10 A	
	400 uA to 400 mA ranges	±(2.5% rdg + 5 dgts)
	10 A range	±(3.5% rdg + 5 dgts)
10A input: 10 A for 60 seconds maximum followed by a 10 minutes cooling period		
Voltage burden:	see DC Current	
Input protection:	see DC Current	
<b>RESISTANCE</b>		
	400 Ω, 4 kΩ, 40 kΩ, 400 kΩ, 4 MΩ, 40 MΩ	
Resolution:	0.1 Ω on 400 Ω range	
	400 Ω to 400 kΩ ranges	±(1.5% rdg + 4 dgts)
	4 MΩ range	±(2.5% rdg + 4 dgts)
	40 MΩ range	±(5.0% rdg + 5 dgts)
Open circuit volts:	-0.45Vdc (-1.2Vdc on 400 Ω range)	
Overload protection:	600 VDC or AC RMS	
<b>FREQUENCY (Hz) (Auto ranging)</b>		
	4 kHz, 40 kHz, 400 kHz	
Resolution:	1Hz	±(0.1% rdg + 3 dgts)
Sensitivity:	10Hz ~ 400kHz: > 3.5Vrms	
Minimum pulse width:	> 2.5us	
Duty cycle limits:	>30% and < 70%	
Overload protection:	600 VDC or AC RMS	



## AU92 Automotive Multimeter

## Data Sheet

### Specifications, cont.

Function	Range	Accuracy
<b>TEMPERATURE</b>		
<b>Ranges:</b>	-20°C ~ 1000°C, -4°F ~ 1832°F	
<b>Resolution:</b>	0.1°C, 0.1°F	
	-20°C ~ 10°C	±(2.0% rdg + 4°C)
	10°C ~ 200°C	±(1.0% rdg + 3°C)
	-20°C ~ 10°C	±(2.0% rdg + 4°C)
	200°C ~ 1000°C	±(3.0% rdg + 2°C)
	-4°F ~ 50°F	±(2.0% rdg + 8°F)
	50°F ~ 400°F	±(1.0% rdg + 6°F)
	400°F ~ 1832°F	±(3.0% rdg + 4°F)
<b>Sensor type:</b>	K-type thermocouple	
<b>Overload protection:</b>	600 VDC or AC RMS	
<b>RPM</b>		
<b>Range: RPM</b>	600 ~ 4000 RPM	
<b>X10 RPM</b>	4000 ~ 12000 RPM	
<b>Resolution:</b>	1 RPM	±(2% rdg + 4 dgts)
<b>Effect Reading:</b>	> 600 RPM	
<b>Overload protection:</b>	600 VDC or AC RMS	
<b>% DUTY CYCLE</b>		
	1.0% ~ 90.0%	
<b>Resolution:</b>	0.1%	
<b>Pulse width:</b>	> 100us, < 100ms	±(2% rdg + 5 dgts)
<b>Overload protection:</b>	600 VDC or AC RMS	
<b>DWELL ANGLE</b>		
<b>No. of Cylinders: 4, 5, 6, 8</b>		
	4 CYL	0 ~ 90.0°
	5 CYL	0 ~ 72.0°
	6 CYL	0 ~ 60.0°
	8 CYL	0 ~ 45.0°
<b>Resolution:</b>	0.1°	±(2% rdg + 5 dgts)
<b>Overload protection:</b>	600 VDC or AC RMS	
<b>CONTINUITY</b>		
<b>Audible indication:</b>	Less than 25Ω	
<b>Response time:</b>	500ms	
<b>Overload protection:</b>	600VDC or AC RMS	
<b>DIODE TEST</b>		
<b>Test current:</b>	1.0mA (approximate)	±(3.0% rdg + 3 dgts)
<b>Resolution:</b>	10mV	
<b>Audible indication:</b>	<0.25V	
<b>Open circuit volts:</b>	3.0VDC typical	
<b>Overload protection:</b>	600VDC or AC RMS	

**AU92 Automotive Multimeter****Data Sheet****Included Accessories**

One pair test leads, temperature adapter, inductive pick-up probe, Type-K thermocouple, One spare fuse (0.5A/500V), 9V battery (installed), carrying case and users manual.

**General Specifications**

**Display:** 3 1/2 digit liquid crystal display (LCD) with a maximum reading of 3999.

**Polarity:** Automatic, positive implied, negative polarity indication.

**OVERRANGE:** (OL) or (-OL) is displayed.

**Zero:** Automatic.

**Low battery indication:** The "BAT" is displayed when the battery voltage drops below the operating level.

**Measurement rate:** 2 times per second, nominal.

**Auto power off:** Approx. 10 minutes.

**Operating environment:** 0°C to 50°C at < 70% RH.

**Storage temperature:** -20°C to 60°C at < 80% RH.

**Accuracy:** Stated accuracy at 23°C ± 5°C, <75% RH.

**Temperature Coefficient:** 0.1 x (specified accuracy) per °C. (0°C to 18°C, 28°C to 50°C).

**Altitude:** 2000m, indoor operation

**Power:** Standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22.

**Battery life:** 150 hours typical with carbon zinc.

**Dimensions:** 165 x 78 x 50 mm ( 6.5 x 3.1 x 1.9 in.)

**Weight:** Approx. 315g (11.1 oz). including holster.

**CE Safety:** Meets IEC61010-1 2nd Ed., UL61010-1 2nd Ed. CAT III-600 Volts AC & DC; Class II; Pollution degree: 2; EN61010-2-032

**EMC:** Conforms to EN61326-1.

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