

multi function

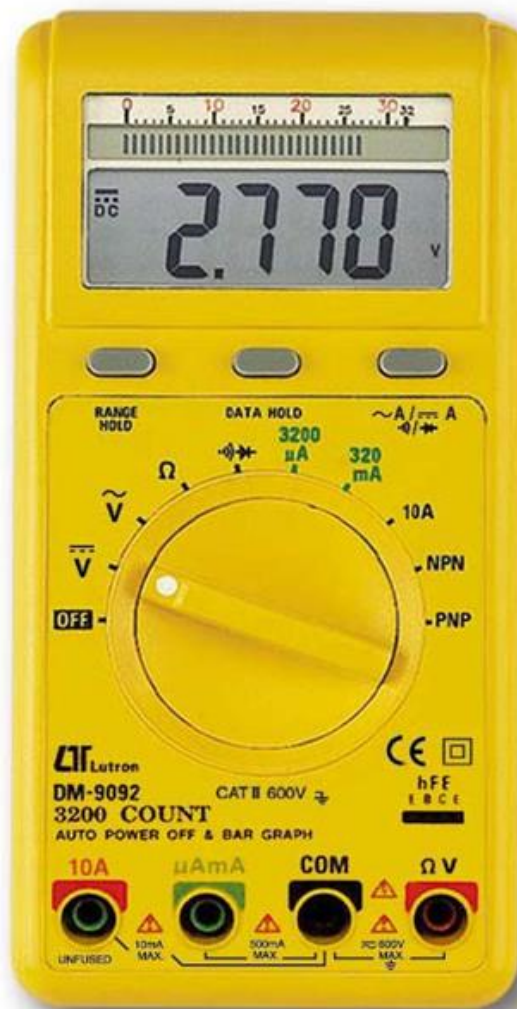
# DIGITAL MULTIMETER

Model : DM-9092

ISO-9001, CE, IEC1010

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02-2389-0101



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*The Art of Measurement*

Auto Range, 3200 digits

# DIGITAL MULTIMETER

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## FEATURE

- \* Auto range DMM with bar graph display.
- \* 3200 digital display counts
- \* LCD display with annunciators.
- \* Large LCD display, easy read-out.
- \* With range hold function - manual range operation available.
- \* Built-in Auto power off features.
- \* Meet IEC1010 safety requirement.
- \* Compact & strong housing case.
- \* AA(UM3) battery, 0.6 mA low power consumption, long battery life.

## GENERAL SPECIFICATION

Display	Digital display -4 digits LCD, 16mm (0.63") digit size with annunciators, max. reading approx. 3200. Analog Bar graph display -32 segments, 100 counts resolution per digit.
Range Control	Auto range & manual range(range hold).
Measurement	DCV, ACV, DCA, ACA, ohms, hFE, DIODE, Continuity Beeper, Data hold.
Polarity	Automatic Switching, '-' indicates negative polarity.
Zero Adjustment	Automatic adjustment.
Over-input indicator	" OL " mark indication.
Sampling Time	Digital display - Approx. 0.5 second. Bar graph display - Approx. 90 mS.
Auto power off	Meter will be power off automatically within 10 min. after the last operation was made.
Operating Temp.	0 to 50 °C (32 to 122 °F).
Operating Humidity	Less than 80% RH.
Power Supply	2 x 1.5 V AA(UM-3) battery.
Power Consumption	Approx. DC 0.6 mA (no signal input).
Dimensions	172x84x36 mm (6.8x3.3x1.4 inch).
Weight	266 g/0.59 LB(including battery).
Accessories Included	Red and Black Test Leads ..... 1 pair      0.5 Amp Spare Fuse ..... 1 PC Instruction Manual ..... 1 PC

## ELECTRICAL SPECIFICATIONS (23± 5 °C)

### DC CURRENT

Range	Accuracy	Reso- lution	Voltage Drop	Overload Protection
320 uA	± (1.0%+2d)	0.1uA	DC320mV * in case of full scale.	0.5 A Fuse
3200 uA	± (1.5%+2d)	1uA		
32 mA	± (1.0%+2d)	10uA		
320 mA	± (1.5%+2d)	100uA		
10 A	± (2.0%+2d)	10mA		Max. 10 A



**AC CURRENT** \* Frequency response: 40Hz - 500Hz, sine wave spec. tested on 60Hz/50Hz.

Range	Accuracy	Resolution	Voltage Drop	Overload Protection
320 $\mu$ A	$\pm (2\%+5d)$	0.1 $\mu$ A	Approx. AC320mV * in case of full scale.	0.5 A Fuse
3200 $\mu$ A		1 $\mu$ A		
32 mA		10 $\mu$ A		
320 mA		100 $\mu$ A		
10 A	$\pm (2.5\%+5d)$	10mA		Max. 10 A

**DC, AC VOLTAGE** \* ACA Frequency response: 40Hz - 500Hz, sine wave, spec. tested on 60Hz/50Hz.

Range	Accuracy	Resolution	Input Impedance	Overload Protection
DC 320 mV only	$\pm (0.5\%+2d)$	100 $\mu$ V	>1000 M ohm	AC 600V rms DC 600 V
3.2 V	DCV:	1mV	10 M ohm	
32 V	$\pm (1.0\%+2d)$	10mV		
320 V	ACV:	100mV		
600 V	$\pm (1.2\%+4d)$	1V		

**RESISTANCE**

Range	Accuracy	Resolution	Open circuit voltage	Overload Protection
320 ohm	$\pm (1.0\%+2d)$	0.1 ohm	Approx. 1.1V	AC 450V rms DC 50V
3.2 K		1 ohm		
32 K		10 ohm		
320 K		100 ohm		
3200 K	$\pm (2.0\%+2d)$	1K ohm 10Kohm		
32 M	$\pm (3.5\%+5d)$			

**CONTINUITY CHECK**

Range	Resolution	Continuity Beeper	Open circuit voltage	Overload Protection
320 ohm	0.1 ohm	< approx. 20 ohm	approx. DC 3V	AC 450V rms DC 50V

**DIODE TEST**

Range	Accuracy	Resolution	Test Current	Overload Protection
0 -2.000V	$\pm (1.0\%+2d)$	1 mV	Approx. 0.5 mA mA(Vf=0.56V)	AC 450V rms DC 50V

**TRANSISTOR hFE MEASUREMENT**

0 - 1000 hFE values of either P.N.P. OR N.P.N. TR. ( test condition : Base DC current about 10 $\mu$ A, VCE: about 3V )
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\* Appearance and specifications listed in this brochure are subject to change without notice.

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