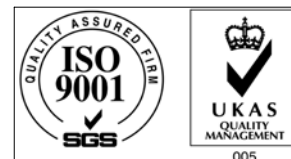


# POCKET DMM

Model : DM-9020

*ISO-9001, CE, IEC1010*



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

# DIGITAL MULTIMETER

Model : DM-9020

## 1. FEATURES

* Pocket size Digital Multimeter, high precision.
* LCD display, easy read-out.
* ACA, DCA, ACV, DCV, Diode, hFE measurement.
* Compact & strong housing case.
* Full range optional adapters for Temperature, Light, DC/AC CLAMP current, Humidity, RPM, 50 Amp Current Shunt, Pressure, EMF... measurement.

## 2-1 General Specifications

Display	13 mm(0.5") LCD, 3 1/2 digits. Max. reading 1999
Measurement	18 ranges, DCV, ACV, DCA, ACA, ohms, hFE, DIODE.
Polarity	Automatic Switching, '-' indicates negative polarity.
Zero Adjustment	Automatic adjustment.
Over-input indicator	" 1 " mark indication.
Sampling Time	Approx. 0.4 second.
Operating Temp.	0 °C to 50 °C (32 °F to 122 °F).
Operating Humidity	Less than 80% RH.
Power Supply	006 P DC 9V battery.
Power Consumption	Approx. DC 5 mA.
Dimensions	120 x 72 x 37 mm (4.7 x 2.8 x 1.4 inch).
Weight	185 g/0.41 LB.
Accessories Included	Red and Black Test Leads ..... 1 pair. Instruction Manual ..... 1 PC.
Optional Accessories & Adapters	Light adapter LX-02 Anemometer adapter, AM-402 Humidity adapter, HA-702 tachometer adapter TA-601 1000 A DC/AC current adapter, CA-501 2000 A DC/AC current adapter, CA-203 Mini ACA current adapter, CA-201 EMF adapter, EMF-824 Sound adapter, SL-406 50 A current shunt, ST-50 High voltage probe, HV-40 Carrying case CA-03, CA-05A Alligator test lead, TL-02S Alligator test lead, TL-02S Heavy duty alligators, AL-04

## 2-2 Electrical Specifications (23± 5 °C)

DC Voltage	
Range	200 mV/2 V/20 V/200 V/600 V
Resolution	0.1 mV/1 mV/10 mV/0.1 V/1 V
Accuracy	± (0.8% + 1 d)
Input Impedance	10 M ohm.
Over Load Protection	500 DCV, 350 ACV - 200mV range. 1000 DCV, 800 ACV - others.

AC Voltage	
Range	200 mV/2 V/20 V/200 V/600 V
Resolution	0.1 mV/1 mV/10 mV/0.1 V/1 V
Accuracy	± 1.2 % + 3 d ) * spec. are tested under 50/60 Hz.
Input Impedance	10 M ohm.
Over Load Protection	500 DCV, 350 ACV - 200mV range. 1000 DCV, 800 ACV - others.

DC Current	
Range	2 mA/20 mA/200 mA/2 A
Resolution	1 uA/10 uA/100 uA/1 mA
Accuracy	± 1.2 % + 1 d) - 2 mA, 20 mA, 200 mA. ± 2 % + 1 d) - 2 A.
Voltage Drop in Full Scale	DC 200 mV
Over Load Protection	2 A fuse.

AC Current	
Range	2 mA/20 mA/200 mA/2 A
Resolution	1 uA/10 uA/100 uA/1 mA
Accuracy	± (1.5 % + 1 d) - 2 mA, 20 mA, 200 mA. ± 2 % + 1 d) - 2 A. * spec. are tested under 50/60 Hz.
Voltage Drop in Full Scale	AC 200 mV
Over Load Protection	2 A fuse.

OHMS	
Range	200/2k/20k/200k/2M/20M ohm
Resolution	0.1/1/10/100/1 k/10 k ohm
Accuracy	± (1.2 % + 2 d) - 200 ohm ± (1 % + 2 d) - 2k,20k,200k,2 M ohm ± (2 % + 2 d) - 20 M ohm.
Over Load Protection	400 DCV, 350 ACV.

Diode Check	
Range	Approx. forward voltage(VF), good/defect test.
Resolution	1 mV.

Transistor (PNP or NPN) hFE	
Range	0-1000 hFE.
Resolution	1 hFE.
Test Current	Ib ( base current = approx. 10 uA ).