

DCV, ACV, ohms, DCA, ACA, hFE, Diode, 20 A

# DMM

Model : DM-9080

ISO-9001, RoHs



LUTRON ELECTRONIC

*The Art of Measurement*

# DIGITAL MULTIMETER

## Model : DM-9080

### FEATURES

* Multi-function measurement : ACV, DCV, ACA, DCA, OHMS, DIODE, hFE.
* Rotary function switch, easy operation.
* Large size LCD display.
* Built in overload protection for any ranges.
* Fuse for overload protection.

### GENERAL SPECIFICATIONS

Display	18mm (0.7") LCD (Liquid Crystal Display), 3 1/2 digits, Max. indication 1999.
Measurement	DCV, ACV, DCA, ACA, ohms, hFE, DIODE.
Polarity	Automatic Switching '-' indicates negative polarity.
Zero Adjustment	Automatic.
Over - input	display shows '1' or '-1'
Sampling Time	Approx. 0.4 second.
Operating Temp.	0 °C to 50 °C (32 °F to 122 °F).
Operating Humidity	Max. 80% RH.
Power Supply	006P DC 9V battery (heavy duty type).
Power Consumption	Approx. DC 3.6 mA.
Dimension	185x87x39 mm (7.3x3.4x1.5 inch).
Weight	322 g/0.71 lb. (including battery).
Standard Accessories	Red and Black Test Leads ..... 1 pair. 0.5 Amp Spare Fuse ..... 1 PC. Instruction Manual ..... 1 PC.

### ELECTRICAL SPECIFICATIONS (23± 5°C)

DC VOLTAGE				
RANGE	ACCURACY	RESOLUTION	INPUT IMPEDANCE	OVERLOAD PROTECTION
200mV	± (0.5%+1d)	100uV	10M ohm	500V DC, 350V AC, 15 secs
2V	± (0.8%+1d)	1mV		DC 750V
20V		10mV		AC 750V
200V		100mV		
750V		1V		

AC VOLTAGE * FREQUENCY RESPONSE: 40Hz-500Hz, SINE WAVE SPEC. TESTED ON 60Hz/50Hz				
RANGE	ACCURACY	RESOLUTION	INPUT IMPEDANCE	OVERLOAD PROTECTION
200mV	± ( 1%+2d)	100uV	10M ohm	500 AV, 350V AC, 15 secs
2V (0.01V-2V)		1mV		DC 750V
20V		10mV		AC 750V
200V		100mV		
750V		1V		

\* Appearance and specifications listed in this brochure are subject to change without notice.

0810-DM9080A

AC/DC CURRENT * FREQUENCY RESPONSE: 40Hz-500Hz, SINE WAVE SPEC. TESTED ON 60Hz/50Hz				
RANGE	ACCURACY	RESOLUTION	VOLTAGE DROP	OVERLOAD PROTECTION
200uA	DCA:	0.1uA	ACA: AC200mV	0.5 A Fuse
2mA	± (1%+1d)	1uA		
20mA	ACA:	10uA		
200mA	± (1.2%+2d)	100uA		
20A	DCA: ± (1.5%+2d) ACA: ± (1.5%+3d)	10mA	DCA: DC200mV	UNFUSED

Note : " 20 A " current range only permit less than 1 min. continuous operation if measuring current > 10 A.

RESISTANCE				
RANGE	ACCURACY	RESOLUTION	OPEN CKT. VOLTAGE	OVERLOAD PROTECTION
200 ohm	± (1%+3d)	0.1 ohm	3 V Max.	AC 500V DC 500V ( Protected by PTC )
2K		1 ohm		
20K		10 ohm		
200K		± (0.8%+1d)		
2000K	1K ohm			
20M	± (2%+2d)	10K ohm		

DIODE TEST
OPEN CIRCUIT VOLTAGE IS APPROX. DC 3V Max.

TRANSISTOR hFE MEASUREMENT
0 - 1000 hFE VALUES FO EITHER P.N.P. OR N.P.N. TRANSISTOR * TEST CONDITION: BASE DC CURRENT APPROX. 10uA, VCE: APPROX. 2.8V.

### 3. Optional Accessories and Adapters

Carry case	CA-03
Carry case	CA-05A
Plug	PL-03
Test Lead	TL-02AS
DCA. ACA CLAMP ADAPTER	CA-501, CA-502, CA-202, CA-203
TACHOMETER ADAPTER	TA-601
PRESSURE ADAPTER	PS-403
HUMIDITY ADAPTER	HS-702
SOUND ADAPTER	SL-406
ANEMOMETER ADAPTER	AM-402
LIGHT ADAPTER	LX-02
EMF ADAPTER	EMF-824
HIGH VOLTAGE PROBE	HV-40