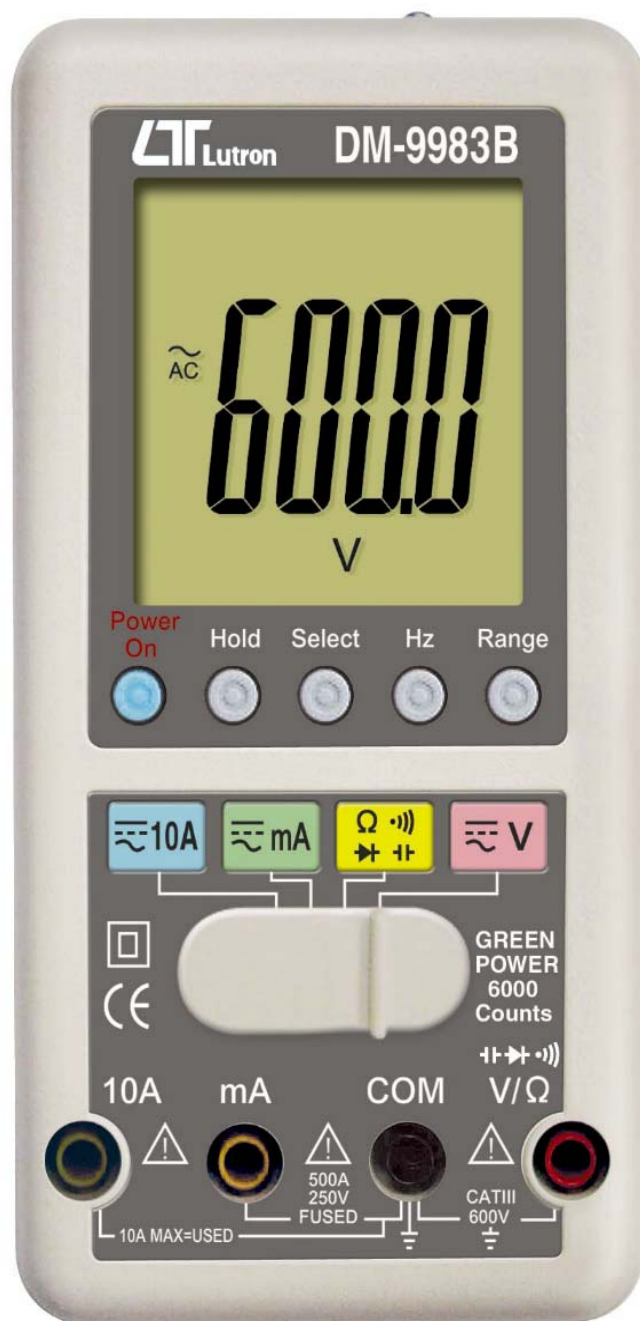


SMART MULTIMETER

Model : DM-9983B

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

SMART MULTIMETER

Model : DM-9983B

FEATURES

* Digital multimeter with smart function,
* Hybrid power, meter also can supply by the battery.
* Meet CAT III-600 V.
* 6000 counts A/D, high resolution.
* ACV, ACA, DCV, DCA, ohms, continuity, Hz, Capacitance, Diode, Data hold.
* Smart function, Auto range or manual range with hold.
* Smart operation, Build in 4 intelligent function : " V ", " Ω ", " mA ", " 10A ".
* " V " function can select ACV, DCV automatically with auto range.
* " Ω " function can select the Resistance , Diode, Continuity beeper, Capacitance automatically with auto range.
* " 10A " " mA " function can measure ACA, DCA with auto range.
* Data hold (auto range).
* Auto shut off is available to save battery life.
* Both 10 A, mA current range are build fuses for safety consideration.
* 10 M ohm impedance for voltage circuit.
* Built-in overload protection for most ranges.
* LSI circuit provides high reliability and durability.
* Patent.
* Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing.
* Full line optional adapters : Clamp adapter, Tachometer adapter, Pressure adapter, Humidity Adapter, Sound level adapter, Anemometer adapter, Light adapter, EMF adapter.

GENERAL SPECIFICATIONS

Display	46 mm x 45 mm large LCD display.
Measurement	ACV, ACA, DCV, DCA, ohms, continuity beeper, Hz, Capacitance, Diode, Data hold.
A/D counts no.	6000 counts.
Range selection	Smart function, auto range or manual range selecting.
Smart function	" V " function can select ACV, DCV automatically with auto range. " Ω " function can select the Resistance, Diode, Continuity beeper, Capacitance automatically with auto range. " 10A " " mA " function can measure ACA, DCA with auto range.
Data hold	To freeze the display reading on the LCD display. * Available for auto range only.
Power On/Off management	If meter is not operated within 3 minutes will auto power switch off.
Polarity	Automatic Switching, " - " indicates negative polarity.
Zero adjustment	Automatic.
Sampling time	Approx. 0.5 to 1 second.
Operating Temperature	0 to 50 °C (32 to 122 °F).
Operating humidity	Less than 80% RH.
Power supply	006P DC 9V battery.
Power consumption	DC 3 mA approximately.
Weight	340 g/0.75 LB.
Dimension	152 x 78 x 45 mm (6.0 x 3.1 x 1.8 inch)
Accessories Included	Red and Black Test Leads..... 1 Set Instruction Manual..... 1 PC

Optional accessories	Full line adapters : * ACA/DCA current adapter : CA-502, CA-203, CA-501 * ACA current adapter : CA-201 * Pressure adapter : PS-403 * Light adapter : LX-02 * EMF adapter : EMF-824 * Sound level adapter : SL-406 * High voltage probe : HV-40
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ELECTRICAL SPECIFICATIONS (23±5°C)

DC/AC Voltage	* auto range
Range	6 V /60 V/600 V
Resolution	0.001 V /0.01 V/0.1 V
Accuracy	DCV : $\pm (1 \% + 2d)$ ACV : $\pm (1.2 \% + 5d)$
Input impedance	10 M ohm.
Over load protection	AC/DC 600 V.
Remark	* The input impedance is 10 Mega ohm. * ACV specification be tested on sine wave 50/60 Hz. * For smart function ,the ACV start measurement voltage is larger than 400 mV $\pm$ 100 mV.

DC/AC Current	* auto range
Range	mA range 600 mA/60 mA 10 A range 10A
Resolution	mA range 0.1 mA/0.01 mA 10 A range 0.01 A
Accuracy	mA range $\pm (1.2 \% + 2d)$ 10 A range $\pm (1.5 \% + 2d)$
Over load protection	mA range 630 mA fuse 10 A range 10 A fuse
Remark	* ACA specification be tested on sine wave 50/60 Hz. * For smart function ,the ACA start measurement is 10 A range : 1.50 A. mA range : 1.50 mA.

OHMS	* auto range
Range	600/6 K/60 K/600 K/6 M ohm
Resolution	0.1/1/10/100/1 K ohm
Accuracy	$\pm (1 \% + 3d)$
Over load protection	$\pm$ 350 DCV, 350 ACV

Capacitance	* auto range
Range	6 nF/60 nF/600 nF/6 μ F/60 μ F
Resolution	0.001 nF/0.01 nF/0.1 nF/0.001 μ F/ 0.01 μ F
Accuracy	$\pm (3 \% + 5d)$
Remark	Discharge capacitor before testing.

Frequency	
Range	40 Hz to 1 KHz.
Resolution	1 Hz.
Accuracy	$\pm (0.3 \% + 2d)$
Input impedance	10 M ohm.
Over load protection	AC/DC 600 V.

Diode	
Short/non conductance, good/defect test.	

Continuity	
If measuring resistance is less than 10 ohm, the beeper will sound .	